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**Subject:**  
**Groundwater Sampling Technical Memorandum - DRAFT**  
**Ringwood Mines/Landfill Site, Ringwood, New Jersey**

Dear Mr. Gowers:

ARCADIS U.S., Inc. (ARCADIS), on the behalf of Ford Motor Company, has prepared this Technical Memorandum to outline the results of the April 2007 Site-wide Groundwater Sampling Event for the Ringwood Mines/Landfill Site, Ringwood, New Jersey (Site). Detailed below is the scope of services that were performed between April 2, 2007 and April 18, 2007 in accordance with the approved July 2004 Post-Environmental Monitoring Program Sampling Work Plan and the approved August 8, 2006 Groundwater Sampling Work Plan pursuant to the United States Environmental Protection Agency's ("EPA") April 7, 2006 request.

## SCOPE OF WORK

ARCADIS performed groundwater sampling and monitored groundwater elevations on the following: wells OB-1 through OB-7, OB-10, OB-12, OB-13, OB-14A, OB-14B, OB-15B, OB-16, OB-17, OB-18, RW-1, RW-2, RW-3, and RW-4. Additionally, groundwater sampling was conducted at the recently installed wells located at the Peters Mine Pit and the O'Connor Disposal Area. Specifically, these wells included the overburden and bedrock wells at locations OB-19, OB-20A, OB-20B, OB-21, RW-5, RW-6, RW-7, and the angled well constructed in directional boring number 1 (SC-1) within the Peters Mine Pit. The newly installed wells around the O'Connor Disposal Area include overburden wells OB-22, OB-23, OB-24, and OB-25. Well locations are shown on Drawing 1. Well details are shown in Table 1.

ARCADIS collected groundwater samples from each well using the groundwater sampling and analytical procedures documented in the Quality Assurance Project Plan. The wells were purged prior to sampling in compliance with the low-flow

ENVIRONMENT

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October 25, 2007

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NJ000604.0001

methods presented in the USEPA Ground Water Sampling SOP FINAL (March 1998). Purging data on groundwater field parameters (pH, oxygen-reduction potential [ORP], temperature, conductivity, and turbidity) were recorded (see Attachment A). These data are summarized in Table 2.

As specified in the Post-Environmental Monitoring Program Sampling Work Plan, each sample was analyzed for Target Analyte List (“TAL”) inorganic compounds, Target Compound List (“TCL”) organic constituents, and anions [chloride, sulfate, carbonate and bicarbonate, nitrate and phosphate].<sup>1</sup> Samples were not analyzed for pesticides based on an e-mail from USEPA dated April 2, 2007 which approved the removal of these constituents from the required analytical for the semi annual groundwater sampling events.

The samples were analyzed at the laboratory using the following SW-846 methodology as described in the USEPA-approved QAPP (May 2004):

- Volatile Organics – USEPA Method 8260B
- Semi-Volatile Organics – USEPA Method 8270C
- Metals – USEPA Methods 6010B/7470A
- PCBs – USEPA Methods 8082
- Cyanide – USEPA Method 9012A

Table 3 identifies the sampling intervals tested on the bedrock wells during the 2007 Site-wide Groundwater Sampling Event. Individual bedrock sampling intervals were isolated using inflatable packers.

## RESULTS

In April 2007 a total of 49 groundwater samples were collected from 32 wells at the Ringwood Mines/Landfill Site. These included 25 shallow groundwater wells, consisting of 15 wells installed in an unconsolidated layer, 1 directional well, and 9 wells installed in shallow bedrock. Samples were also collected at 7 deeper bedrock groundwater wells. The deep groundwater samples were collected at depths ranging from 10 to 472 feet below ground surface (bgs).

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<sup>1</sup> The cations (calcium, magnesium, potassium, and sodium) are included as target metals in the TAL inorganic compound analysis protocol.

Required quality control samples were obtained in accordance with NJDEP and Quality Assurance Project Plan (QAPP) procedures specified in the Work Plan. Where adequate sample volumes were obtained, both unfiltered (total metal) and filtered groundwater samples were analyzed for metals in order to acquire analytical data reflective of actual groundwater conditions.

All sample results were reviewed and validated by ARCADIS in accordance with the QAPP. Validation qualifiers and comments were added to the data tables as appropriate. No data were invalidated. The results of the 2007 Site-Wide Groundwater Sampling event are presented on Drawing 2, and summarized within Table 4 through Table 7.

The results of these analyses were compared to NJDEP's Class IIA Ground Water Quality Standards (GWQS), including certain metals for which NJDEP's GWQS are based on EPA's non-health-based secondary, aesthetic standards (e.g., aluminum, iron, manganese, sodium, and zinc). See N.J.A.C. 7:9-6, et seq.

Following is a summary of the results of the April 2007 sampling program.

## Volatile Organic Compounds

### Shallow Groundwater

- Unconsolidated and Directional Wells

None of the VOCs on the target compound list were detected above NJDEP's GWQS in groundwater samples collected from 14 of the 16 unconsolidated monitoring wells. In two monitoring wells situated adjacent to Peters Mine Pit, OB-20B and SC-1, benzene was detected in both wells at 1.4 micrograms per liter ( $\mu\text{g}/\text{L}$ ) which is slightly above the NJDEP GWQS of 1.0  $\mu\text{g}/\text{L}$ .

- Shallow Bedrock Wells

None of the target compound list VOCs were detected above NJDEP's GWQS in samples collected from the shallow bedrock wells.

## Deeper Groundwater

VOCs were not detected above NJDEP's GWQS in 5 of the 7 bedrock wells. Benzene slightly exceeded the NJDEP GWQS of 1.0 µg/L in six samples collected from two wells, RW-5 and RW-6, located at Peters Mine Pit. In RW-5, benzene was detected at concentrations of 1.9 µg/L, 1.5 µg/L, and 2.6 µg/L at the intervals of 40'-51' bgs, 65'-76' bgs and 97'-118' bgs, respectively. In RW-6, benzene was detected at concentrations of 2.6 µg/L, 1.9 µg/L, and 2.7 µg/L at the intervals of 53'-64' bgs, 70'-80' bgs and 98'-119' bgs, respectively.

## **Semi-volatile Organic Compounds**

### Shallow Groundwater

- Unconsolidated and Directional Wells

SVOCs were not detected at concentrations above NJDEP's GWQS for 14 of the 16 shallow groundwater monitoring wells. In two monitoring wells, OB-23 (within the O'Connor disposal area) and OB-25 (upgradient of the O'Connor disposal area), bis(2-ethylhexyl) phthalate was detected in the groundwater samples at 6.6 µg/L and 3.7 µg/L, respectively, which exceed the NJDEP GWQS of 3.0 µg/L.

Bis(2-ethylhexyl)phthalate was also detected in the directional well located within the Peter's Mine Pit (SC-1) at a concentration of 3.0 µg/L, which is equal to the NJDEP GWQS.

- Shallow Bedrock Wells

SVOCs were not detected at concentrations above NJDEP's GWQS in groundwater collected from any of the 9 monitoring wells installed into the bedrock.

### Deep Groundwater

SVOCs were not detected in groundwater samples obtained from the deeper bedrock wells at concentrations above the NJDEP GWQS, except for bis(2-ethylhexyl)phthalate, which was detected in samples collected

from 6 of the wells. The samples that exceeded the standard ranged in concentration from 3.8 – 45.9 µg/L within wells RW-1, RW-2, RW-4, RW-5, RW-6, and RW-7.

### **Polychlorinated Biphenyls (PCBs)**

None of the 7 PCB arochlor were detected above laboratory detection limits in any of the shallow or deep groundwater samples collected from the monitoring wells.

### **Metals**

#### Shallow Groundwater

- Unconsolidated and Directional Wells

Lead was not detected above the NJDEP GWQS of 5 µg/L in any filtered samples collected from wells installed in the unconsolidated layer. Lead was detected above the GWQS in five unfiltered groundwater samples, two collected at the Peters Mine Pit area and three collected in the O'Connor disposal area. Samples from wells OB-21 and SC-1 had concentrations of 29.2 µg/L and 6.3 µg/L, respectively. Three samples from overburden wells (OB-22, OB-23, and OB-25) located in the O'Connor Disposal Area exceeded the NJDEP GWQS with concentrations ranging from 9.1 µg/L to 594 µg/L.

Arsenic was detected above the NJDEP GWQS of 3 µg/L in 5 unfiltered samples. The samples collected from wells located around the Peters Mine Pit Area, OB-20A and OB-21, contained arsenic at concentrations of 24.6 µg/L and 29.9 µg/L, respectively. Samples collected from wells around the O'Connor Disposal Area (OB-16, OB-22, and OB-25) ranged in concentrations from 4.4 µg/L to 7.1 µg/L. Two of the wells, OB-20A and OB-16, also had arsenic concentrations above the NJDEP GWQS in the filtered samples.

Iron was detected above NJDEP GWQS of 300 µg/L in 14 of the 16 unfiltered samples collected from the shallow monitoring wells. The iron exceedences ranged from 962 µg/L to 68,100 µg/L. Manganese was detected above the NJDEP GWQS of 50 µg/L in 15 of the 16 unfiltered

sampled collected from the monitoring wells, ranging in concentrations from 276 µg/L to 8,680 µg/L. Aluminum was detected above the NJDEP GWQS in 5 of the 16 unfiltered samples collected. Sodium was detected in above the NJDEP GWQS of 50,000 µg/L in 1 of the 16 unfiltered samples collected (also detected above the GWQS in the filtered sample). NJDEP's GWQS for these metals are based on EPA's non-health-based secondary, aesthetic standards.

- Shallow Bedrock Wells

Lead was not detected above the NJDEP GWQS of 5 µg/L in either filtered or unfiltered samples collected from the groundwater monitoring wells installed in the shallow bedrock.

Arsenic was not detected in filtered or unfiltered samples above the NJDEP GWQS of 3 µg/L in the 9 shallow bedrock wells.

Iron was detected above the NJDEP GWQS of 300 µg/L in 4 of the 9 unfiltered samples collected from the shallow bedrock wells. Concentrations for the exceeded samples ranged from 910 to 27,9000 µg/L. Three unfiltered samples exceeded the GWQS of 50 µg/L for manganese in 3 of the 9 bedrock wells. One sample collected from bedrock well OB-4 exceeded the GWQS for sodium, with a concentration of 66,800 µg/L, compared to the GWQS of 50,000 µg/L.

#### Deeper Groundwater:

The lead standard was not exceeded in 23 of the 24 filtered samples; however, the sample collected from RW-2 from the interval 278' – 309' bgs contained lead at a concentration of 5.2 µg/L, which is slightly above the NJDEP GWQS of 5 µg/L. The lead standard was exceeded in 8 of the 25 unfiltered samples, with the highest concentration measuring 44.3 µg/L in the sample collected from RW-5 from 40' – 51' bgs.

The NJDEP GWQS for arsenic (3 µg/L) was not exceeded in any of the sampled intervals at all 7 deep bedrock wells.

Iron concentrations exceeded the NJDEP GWQS of 500 µg/L in 18 of 24 unfiltered samples and 4 of 22 filtered samples in 5 deep bedrock wells.

Manganese exceeded its NJDEP GWQS in 14 of 24 unfiltered samples and in 12 of 22 filtered samples. Aluminum, sodium and zinc exceeded NJDEP's GWQS in one or more unfiltered samples. NJDEP's GWQS for these metals are based on EPA's non-health-based secondary, aesthetic standards.

The geographic distribution of constituents that exceeded their respective NJDEP GWQS is presented on Drawing 2.

### **Comparison with Historical Results**

Recent groundwater sampling results (2006 and 2007) are consistent with previous groundwater sampling which was conducted at the site from 1984 to 2004. The sampling results indicate that there is no plume of impacted groundwater at the site. Detections of constituents of concern above guidance levels have been limited, and sporadic.

During the period of groundwater monitoring from 1984 to 1995, 281 groundwater samples were collected and analyzed from on-site monitoring wells. The analytical results from these samples show, for example, that in 1995 -- the last sampling event of the EMP -- benzene was detected in 2 of 57 samples, arsenic was detected in 13 of 57 samples, and lead was detected in 15 of 57 samples. Actual exceedances of NJDEP GWQS were few. Historical groundwater sampling results showing exceedances of NJDEP GWQS are presented in Table 8.

## **CONCLUSIONS**

The following conclusions may be drawn based on the results of groundwater sampling conducted at the Site in April 2007.

### Shallow Groundwater (Overburden Wells)

Shallow groundwater is monitored by overburden wells in the Peters Mine Pit and O'Connor Disposal Area, and by shallow bedrock wells in the Cannon Mine area and St. George Pit/Miller Pit area.

Only low level detections of VOCs have been noted and they are primarily limited to the vicinity of Peters Mine Pit, with only benzene exceeding its NJDEP

GWQS (one sample from well OB-20B and from well SC-1 at a concentrations of 1.4 µg/L compared to its GWQS of 1.0 µg/L). There were no detections of PCBs in any of the groundwater samples collected from shallow groundwater monitoring wells.

Concentrations of the bis (2-Ethylhexyl)phthalate exceeded the NJDEP GWQS in samples collected from monitoring wells OB-23 and OB-25 (O'Connor Disposal Area). One other well, SC-1, in the Peters Mine Pit Area had exceedences for bis (2-Ethylhexyl)phthalate, measuring the GWQS concentration, 3.0 µg/L All other organics in the overburden wells were not detected at concentrations above GWQS.

Lead concentrations were above the NJDEP GWQS (5.0 µg/L) in unfiltered samples collected from wells SC-1, OB-21, OB-22, OB-23, and OB-25. Sample concentrations ranged from 9.1 µg/L to 594 µg/L. Wells OB-21 and SC-1 are in the Peters Mine Pit Area. Wells OB-22 and OB-23 are within the O'Connor Disposal Area, and OB-25, which had the highest concentration of lead detected, is located upgradient of the O'Connor Disposal Area.

Arsenic concentrations above the NJDEP GWQS of 3.0 µg/L were identified in filtered samples collected from OB-16 and OB-20A. Concentrations of arsenic in unfiltered samples above the GWQS were collected from OB-16, OB-20A, OB-21, OB-22, and OB-25. Arsenic detections and exceedances are localized to the vicinity of Peters Mine Pit and the O'Connor Disposal Area<sup>2</sup>, but arsenic was not detected in all shallow wells of the groundwater monitoring network in these locations. For example, arsenic was not detected in the sample collected from OB-10 downgradient of the Site.

Iron and manganese exceedances of the NJDEP GWQS were widespread, with elevated concentrations in most of the groundwater samples collected from the shallow groundwater monitoring wells.

Comparison of filtered to unfiltered overburden groundwater sample results shows that for metals other than iron, manganese and cations, detections in unfiltered samples are typically not detected in the filtered results. This indicates

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<sup>2</sup> Mine tailings from historic mining activities were discarded in the Peters Mine Pit and the O'Connor Disposal Area, potentially accounting for the arsenic findings. The potential connection between arsenic and former mine tailings will be analyzed under the Mine Tailings/Background Soil Investigation Work Plan.

that these metals (aluminum, arsenic, barium, cadmium, chromium and lead) are not dissolved in groundwater but are suspended solids (as a mineral or sorbed to colloidal particles).

The exceptions to the above were the filtered samples from OB-16 and OB-20A where arsenic was detected above its GWQS and OB-20B where lead was detected. Cobalt was detected in the filtered samples collected from both OB-20A and 20B.

Dissolved iron and manganese exceeded their respective GWQS in filtered samples in 9 and 13 of 15 overburden wells, respectively. Typically, where these exceedances occurred, 90% or more of the detected iron and manganese was in the dissolved state, except in the samples collected from OB-22, OB-23, and OB-25.

Because of the widespread presence of iron and manganese that exceeds their respective NJDEP GWQS in the vicinity of Peters Mine Pit and the O'Connor Disposal Area, shallow groundwater in overburden does not meet NJDEP's criteria for Class II-A classification.

Detections of constituents of potential concern other than iron and manganese were sporadic and below NJDEP GWQS, with the exception of one shallow well, OB-25. Sample concentrations from this well exceeded NJDEP GWQS for beryllium, cadmium, and mercury. This well is located upgradient of the O'Connor disposal area alongside the former automobile junkyard location, and is the only well with exceedences for these compounds, as well as the highest concentration (594 µg/L) of lead detected in the groundwater.

#### Bedrock Wells

Shallow and deeper groundwater within bedrock is monitored by a network of wells in the Peters Mine Pit and O'Connor Disposal Area that are completed below the overburden within deeper bedrock, and by shallow and deeper bedrock wells in the Cannon Mine area and St. George Pit/Miller Pit area (saturated overburden is not present in these areas).

Detections of VOCs are limited to the vicinity of Peters Mine Pit, with only benzene exceeding its NJDEP GWQS in the samples collected in several depth intervals wells RW-5 and RW-6. The concentrations of benzene ranged from

<0.21 µg/L to 2.7 µg/L compared to its GWQS of 1.0 µg/L. There were no SVOC detections above NJDEP GWQS, with the exception of bis-(2-ethylhexyl)phthalate, which was detected in the bedrock wells at various, but not all depth, intervals. The concentrations of bis-(2-ethylhexyl)phthalate ranged from <0.66 µg/L to 45.9 µg/L compared to its GWQS of 3.0 µg/L. There were no detections of PCBs in any of the groundwater samples collected from shallow or deeper bedrock groundwater monitoring wells.

Lead was not detected above its NJDEP GWQS in the southern half of the site (south of the O'Connor Disposal Area) except in deeper bedrock well RW-2 where lead was detected at a concentration of 14 µg/L (above the GWQS of 5.0 µg/L) in the unfiltered sample (the lead result was 5.2 µg/L in a filtered sample from the same well). In the northern half of the site, lead was detected in the samples collected from wells RW-4, RW-5, and RW-6 at concentrations ranging from <2.8 µg/L to 44.3 µg/L. Lead detections that exceeded the NJDEP GWQS were observed at depth intervals between 40 and 118 feet bgs.

Arsenic was not detected in the bedrock groundwater in the Peters Mine area, with the exception of the sample collected from well RW-6 at a depth interval of 53 to 64 feet bgs where the concentration was 1.7 µg/L in the unfiltered sample. Arsenic was not detected in the filtered sample (<1.5 µg/L). Arsenic was not detected in the bedrock groundwater in the Cannon Mine Area and St. George/Miller Pit.

Iron and manganese exceedances of the NJDEP GWQS were widespread, with elevated concentrations in most of the groundwater samples collected from the shallow and deeper bedrock groundwater monitoring wells.

Comparison of filtered to unfiltered bedrock groundwater sample results shows that for metals other than cobalt, iron, manganese and cations, detections in unfiltered samples are typically not detected in the filtered results. This indicates that these metals (aluminum, copper and lead) are not dissolved in groundwater but are suspended solids (as a mineral or sorbed to colloidal particles).

The exceptions to the above were the filtered samples from RW-2(278-309) where lead was detected above its GWQS and RW-5(97-118) where lead was detected.

Dissolved iron and manganese exceeded their respective GWQS in filtered samples in 9 and 15 of 34 groundwater samples, respectively. More often, where iron and manganese exceedances occurred, 75% or more of the detected iron and manganese was in the dissolved state. The exceptions were the samples collected from OB-7, RW-2(all intervals), RW-4(all intervals), and RW-7(upper 3 intervals).

Because of the widespread presence of iron and manganese that exceeds their respective NJDEP GWQS, shallow and deeper groundwater in bedrock does not meet the NJDEP's criteria for Class II-A classification.

Detections of constituents of potential concern other than iron and manganese were sporadic and below NJDEP GWQS, with the exception of one bedrock well (RW-2) in the vicinity of the Cannon Mine Area and St. George/Miller Pit area. This well is affected by both sodium and chloride in intervals ranging from 19 to 472 ft bgs. Groundwater in bedrock below the Borough of Ringwood Landfill, both shallow and deeper, is affected by sodium and alkalinity.

Present groundwater quality is consistent with historical patterns observed from 1984 through 2006. Groundwater quality remains essentially unchanged from previous sampling events, including the September/October 2006 event; constituents of concern are not present in the groundwater in any consistent pattern, or in high concentrations. The concentrations of naturally occurring iron and manganese make the groundwater non-potable.

Groundwater at the site is not used for drinking water.

## RECOMMENDATIONS

To complete the work scope described in the USEPA-approved work plan for the Peters Mine Investigation, Ford recommended completion of the open bedrock wells (RW-5, RW-6, and RW-7) as cased wells in a letter to USEPA dated August 13, 2007. The letter also included a recommendation for the installation of 2 additional bedrock wells to be paired with RW-5 and RW-6.

The recommendations were accepted by USEPA and installation of these wells was completed on September 18, 2007.

Based on the results of this groundwater sampling event and prior historical groundwater analytical results, Ford requests that the analytes monitored for in future events be reduced from the TCL to include limited VOCs and SVOCs (benzene, ethylbenzene, toluene, xylenes, isopropylbenzene, 1,1-dichloroethane, chloroethane and bis-(2-ethylhexyl)phthalate), TAL metals, alkalinity, phosphorous, and chloride.

The next semi-annual groundwater sampling will be performed during October 2007 and will include sample collection at the 2 new bedrock wells and at the Peters Mine air shaft.

Please feel free to contact the undersigned if you have any questions or require additional information.

Sincerely,  
ARCADIS U.S., Inc.



Gregory R. Albright, R.G.  
Senior Geologist



Erich Zimmerman, P.E.  
Project Manager

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Table 1. Summary Data for Monitoring Wells, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Old Well ID	Month/Year of Installation	Elevation Data		Location Data		Monitoring Well and Boring Data										
			Ground Surface (ft msl)	Top of Protective Casing (ft msl)	Northing (ft)	Easting (ft)	Well Type	Diameter (inches)	Well Material	Open Hole or Screened Interval (ft bgs)				Total Depth (ft bgs)	Bottom Elevation (ft msl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft msl)
OB-1*	OB-1	Jul-84	542.60	544.37	39,190	7,294	BR	6	S/OH	5 to 31	31	512	3	540			
OB-2*	OB-2	Jul-84	561.40	562.30	37,821	7,508	BR	6	S/OH	8 to 42	42	519	4	557			
OB-3*	OB-3	Jul-84	495.60	496.53	37,840	7,275	BR	6	S/OH	9 to 24	24	472	7	489			
OB-4*	OB-4	Jul-84	510.60	510.80	37,889	8,348	BR	6	S/OH	28 to 61	61	450	25	486			
OB-5*	OB-5	Jul-84	457.90	458.83	37,607	8,634	BR	6	S/OH	18 to 63	63	395	18 est.	440			
OB-6*	OB-6	Jul-84	605.00	607.28	39,828	8,053	BR	6	S/OH	10 to 36	36	569	8	597			
OB-7*	OB-7	Jul-84	503.40	503.91	40,068	9,003	BR	6	S/OH	14 to 42	42	461	11	492			
OB-8*	OB-8	Jul-84	572.50	574.25	43,461	8,737	UC	4	PVC	7 to 17	23	550	18 est.	555			
OB-9*†	OB-9*	Jul-84	507.60	508.56	41,191	9,759	UC	4	PVC	51 to 61	63	445	NE	---			
OB-10*	OB-10	Jul-84	349.70	352.04	39,683	12,200	UC	4	PVC	10 to 20	20	330	NE	---			
RW-1*	RW-1	Jul-84	549.00	550.44	39,232	7,351	BR	6	S/OH	4 to 150	150	399	4	545			
RW-2*	RW-2	Jul-84	512.80	513.23	37,914	8,312	BR	6	S/OH	14 to 503	503	10	6	507			
OB-11*†	OB-11*	Sep-84	529.60	530.25	42,601	9,614	UC	4	PVC	14 to 24	25	505	NE	---			
RW-3*	RW-3	Sep-84	528.20	529.30	42,644	9,760	BR	6	S/OH	58 to 100	100	428	58	470			
RW-4*	RW-4	Sep-84	539.90	541.07	42,802	10,344	BR	6	S/OH	60 to 543	543	-3	54	486			

See last page for notes.

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Well ID	Old Well ID	Month/Year of Installation	Elevation Data		Location Data		Monitoring Well and Boring Data											
			Ground Surface (ft msl)	Top of Protective Casing (ft msl)	Northing (ft)	Easting (ft)	Well Type	Diameter (inches)	Well Material	Open Hole or Screened Interval (ft bgs)					Total Depth (ft bgs)	Bottom Elevation (ft msl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft msl)
										Screened Interval (ft bgs)	Total Depth (ft bgs)	Bottom Elevation (ft msl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft msl)				
OB-12*	OB-12	Mar-86	557.60	558.36	37,360	7,685	BR	6	SS/OH	9 to 40	40	518	6	552				
OB-13*	OB-13	Mar-86	499.10	500.35	37,180	8,195	BR	6	SS/OH	8 to 60	60	439	5	494				
OB-14A*	OB-14A	Mar-86	500.80	501.40	41,855	10,070	UC	4	SS	4 to 14	20	481	NE	---				
OB-14B*	OB-14B	Mar-86	503.10	504.11	41,830	10,045	UC	4	SS	25 to 35	40	463	NE	---				
OB-15A*†	OB-15A**	Mar-86	515.00	515.82	42,520	9,990	UC	4	SS	2 to 12	20	495	NE	---				
OB-15B*	OB-15B	Mar-86	514.70	515.98	42,525	9,999	UC	4	SS	25 to 35	40	475	NE	---				
OB-16*	OB-16	Nov-91	488.60	492.30	41,525	10,020	UC	4	SS	5 to 15	14.5	474	NE	---				
OB-17*	OB-17	Nov-91	486.80	490.26	41,327	10,009	UC	4	SS	3 to 13	13	474	NE	---				
OB-18*	OB-18	Nov-91	494.60	496.26	41,183	9,965	UC	4	SS	10 to 20	20	475	NE	---				
OB-19	MW-19 OB	Mar-06	530.7	532.39	842,739	555,930	UC	2	PVC	5 to 20	24	507	NE	---				
OB-20A	MW-20 OB	Mar-06	532.1	533.67	842,588	555,818	UC	2	PVC	5 to 20	22	510	NE	---				
OB-20B	MW-20 OB-34	Mar-06	532.1	534.03	842,583	555,819	UC	2	PVC	24 to 34	35	497	NE	---				
OB-21	MW-21 OB	Mar-06	537.7	539.48	842,790	555,570	UC	2	PVC	6 to 21	22	516	NE	---				
RW-5	MW-19 BR	Mar-06	530.3	533.48	842,747	555,928	BR	6	S/OH	38 to 120	120	410	28	502				
RW-6	MW-20 BR	Mar-06	531.9	533.96	842,575	555,812	BR	6	S/OH	47 to 120	120	412	36	496				
RW-7	MW-21 BR	Mar-06	537.6	539.43	842,793	555,573	BR	6	S/OH	32 to 120	120	418	22	516				
OB-22§	OB-19	Oct-06	515.5	518.36	841,207	556,108	UC	2	PVC	10-20	20	495	NE	---				
OB-23§	OB-20	Oct-06	512.8	515.65	841,571	556,225	UC	2	PVC	10-20	20	493	NE	---				
OB-24§	OB-21	Oct-06	498.0	500.89	841,911	556,256	UC	2	PVC	5-15	15	483	NE	---				
OB-25§	OB-22	Oct-06	527.3	527.31	841,978	555,959	UC	2	PVC	10-20	20	507	NE	---				
SC-1§*	DB-1	Mar-06	531.03	532.53	842620.7	555818.8	Fill	2	PVC	64.4-70.9	97.5	435.03	93.6	438.93				

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			Ground Surface (ft msl)	Top of Protective Casing (ft msl)	Northing (ft)	Easting (ft)	Well Type	Diameter (inches)	Well Material	Open Hole or Screened Interval (ft bgs)	Total Depth (ft bgs)	Bottom Elevation (ft msl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft msl)

Notes:

NE = not encountered.

BR = bedrock well.

UC = unconsolidated well.

PVC = polyvinyl chloride.

SS = stainless steel.

S = steel.

OH = open hole.

msl = mean sea level.

bgs = below ground surface.

\*Northing and easting are based on a site-specific plane coordinate system.

est. - estimated, uncertain about bedrock depth and elevation.

† OB-9 was destroyed in October 1989 during land clearing and grading by a developer unrelated to remedial activities.

‡OB-11 was destroyed during SR-3 Excavation Work 2006

‡ OB-15A, which was screened across paint sludge, was decommissioned in 1987 during the paint sludge removal work at Location A.

§ Elevation data, Ground surface (msl) not surveyed

• Elevation data based on a directional well extending 97.5 ft bgs, and 150ft in length. Bedrock was encountered at 144 ft of diagonal drilling

Table 2. Field Parameters at sampling time - Shallow wells (2007)

Well ID	Sampling date	Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (umhos/cm)	Temp (°C)	Depth to Water	Diss. Oxygen
OB-1	4/6/2007	8:35	30	400	2.0	109.3	6.12	75	7.02	5.40	8.87
OB-2	4/6/2007	14:28	20	375	1.0	60.2	6.08	120	10.12	18.95	6.28
OB-3	4/3/2007	8:30	35	400	2.5	163.0	5.81	96	7.76	0.00	8.60
OB-4	4/6/2007	11:37	30	300	6.0	-142.2	7.18	966	12.06	17.45	0.29
OB-5	4/4/2007	15:18	35	300	23.0	-69.3	6.47	966	9.42	2.61	0.30
OB-6	4/5/2007	10:04	40	250	4.0	66.5	6.60	376	6.47	2.40	0.22
OB-7	4/5/2007	16:40	50	350	19.0	2.1	6.80	591	8.76	3.35	0.83
OB-10	4/3/2007	14:20	45	350	3.0	9.7	6.58	97	4.90	5.60	0.25
OB-12	4/3/2007	9:55	30	350	0.2	186.5	5.41	86	8.30	8.65	8.40
OB-13	4/3/2007	11:55	50	300	0.7	195.4	5.55	79	10.83	13.10	9.22
OB-14A	4/9/2007	13:51	45	300	5.0	-98.3	6.30	938	12.90	10.39	0.41
OB-14B	4/9/2007	13:56	70	300	3.0	-12.9	6.69	954	14.00	12.57	0.28
OB-15B	4/12/2007	10:25	82	300	147.0	171.1	7.87	212	5.38	7.11	0.32
OB-16	4/10/2007	14:50	83	375	2.8	-20.6	6.63	985	8.65	5.68	0.32
OB-17	4/10/2007	11:10	30	300	9.0	114.1	6.44	656	6.45	5.78	0.50
OB-18	4/10/2007	9:58	57	300	1.0	150.3	6.88	357	6.65	8.10	2.39
OB-19	4/9/2007	8:40	39	300	2.0	-40.7	6.22	160	6.23	11.57	0.18
OB-20A	4/3/2007	15:20	39	200	21.0	-86.9	6.27	467	11.61	14.11	0.30
OB-20B	4/5/2007	12:28	59	400	36.0	-50.4	6.27	527	10.28	15.30	0.20
OB-21	4/9/2007	10:24	55	400	816.0	32.6	6.42	101	7.38	6.75	5.83
OB-22	4/4/2007	10:40	48	250	NR	184.4	6.15	313	7.94	19.04	2.99
OB-23	4/12/2007	11:00	NC	NC	NC	NC	NC	NC	NC	NC	NC
OB-24	4/11/2007	11:11	50	350	5.1	90	7.24	840	7.76	4.92	0.25
OB-25	4/12/2007	11:45	NC	NC	NC	NC	NC	NC	NC	NC	NC
SC-1	4/11/2007	15:47	132	400	11.7	-18.7	5.97	304	8.62	13.93	0.26

Note: NR = No reading because of instrument malfunction

NC = Data not collected at time sample collected

# ARCADIS

Table 2. Field Parameters Ground Water Sampling 2007 - Deep wells

Well ID	Interval (fbgs)	Sampling date	Time	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (umhos/cm)	Temp (°C)	Diss. Oxygen
RW-1	10-30	4/17/2007	11:47	2	0.6	242.40	5.72	36	8.83	6.80
RW-1	58-79	4/18/2007	13:15	2	1.1	216.10	5.98	42	10.62	7.13
RW-1	97-118	4/18/2007	15:05	2	2.2	146.70	7.93	200	10.67	2.03
RW-1	125-146	4/18/2007	16:15	2	5.0	13.00	7.93	199	10.97	1.73
RW-2	19-49	4/10/2007	12:58	2	2.3	119.20	6.30	1	14.45	0.62
RW-2	102-133	4/10/2007	15:41	2	41.7	105.80	6.42	2	12.48	1.01
RW-2	161-192	4/16/2007	15:07	2	45.0	95.600	6.73	1340	11.71	2.42
RW-2	278-309	4/17/2007	12:15	2	29.0	115.700	6.84	1351	11.66	3.91
RW-2	441-472	4/17/2007	14:30	2	9.0	76.40	6.73	1942	37.02	0.13
RW-3	65-100	4/5/2007	13:10	2	200.0	-3.50	7.30	397	10.58	0.31
RW-4	57-77	4/6/2007	13:56	2	NC	44.80	7.01	112	5.29	1.61
RW-4	108-129	4/9/2007	10:19	2	NC	133.10	7.02	139	10.62	4.50
RW-4	328-349	4/9/2007	12:24	2	NC	142.80	6.75	119	10.96	5.09
RW-4	388-409	4/9/2007	15:02	2	6.3	142.40	6.77	119	10.20	5.31
RW-5	40-51	4/13/2007	15:02	2	59.3	-108.70	7.25	500	5.57	1.94
RW-5	65-76	4/12/2007	15:05	2	41.5	-56.60	7.88	254	7.55	7.26
RW-5	97-118	4/12/2007	8:54	2	20.6	-88.90	7.10	518	11.04	0.21
RW-6	53-64	4/2/2007	16:35	2	6.4	-64.80	6.41	615	12.96	1.21
RW-6	70-81	4/3/2007	9:48	2	0.9	-60.50	6.41	652	11.47	0.32
RW-6	98-119	4/6/2007	8:59	2	NC	-61.20	6.46	616	9.19	0.44
RW-7	34-45	4/3/2007	13:13	2	55.0	334.00	4.43	115	12.21	4.45
RW-7	49-60	4/4/2007	15:15	2	7.3	73.00	6.75	138	8.34	4.55
RW-7	80-101	4/3/2007	17:12	2	5.7	150.00	6.66	118	11.52	5.69
RW-7	103-119	4/4/2007	12:30	2	1.9	218.60	6.78	132	8.66	5.12

Note: NR = No reading because of instrument malfunction

NC = Data not collected at time sample collected

Table 3. Bedrock Wells Sampling Intervals, April 2007 Groundwater Sampling Event

Well No.	Depth (feet)	Open Hole Interval (feet)	2007 Sampling Depth (feet)
RW-1	150	4 to 150	10-31 58 - 79 97 - 118 125 - 146
RW-2	503	14 to 503	19-50 102 - 133 161 - 192 278 – 309 441 - 472
RW-3	100	58 to 100	62-98
RW-4	543	60 to 543	56-77 108 - 129 328-349 388-409
RW-5	120	38 to 120	40 - 51 65 - 76 97-118
RW-6	120	47 to 120	53 - 64 70 - 81 98 -119
RW-7	120	32 to 120	34-45 49 - 60 80 - 101 103 - 119

**Table 4. Summary of Well Groundwater Analytical Results - VOCs, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

**Table 4. Summary of Well Groundwater Analytical Results - VOCs, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-1	OB-2	OB-3	OB-4	OB-5	OB-6	OB7	OB-10	OB-12	OB-13	OB-14A	OB-14B	
Sample Name	GWQS <sup>(1)</sup>	OB-1(040607)	OB-2(040607)	OB-3(040307)	OB-4(040607)	OB-5(040407)	OB-6(040607)	OB7(041107)	OB-10 (040207)	OB-12(040307)	OB-13(040307)	OB-14A(040907)	OB-14B(040907)
Sample Date		4/6/2007	4/6/2007	4/3/2007	4/6/2007	4/4/2007	4/6/2007	4/11/2007	4/2/2007	4/3/2007	4/3/2007	4/9/2007	4/9/2007
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC (continued)</b>													
Trichlorofluoromethane	2,000	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	1	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Total TIC, Volatile	NS	0	0	0	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C). 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-15B	OB-16	OB-17	OB-18	OB-18 DUP	OB-19	OB-20A	OB20B	OB20B DUP	OB-21
Sample Name	OB-15B(041207)	OB-16(041007)	OB-17(041007)	OB-18(041007)	DUP(041007) (OB-18)	OB-19(040907)	OB-20A(040307)	OB20B(040507)	DUP(040507) (OB20B)(040507)	OB-21(040907)
Sample Date	4/12/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/9/2007	4/3/2007	4/5/2007	4/5/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC</b>										
1,1,1-Trichloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2-Trichloroethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,1-Dichloroethane	< 0.23	< 0.23	0.68 J	< 0.23	< 0.23	< 0.23	< 0.23	0.42 J	< 0.23	< 0.23
1,1-Dichloroethene	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2,4-Trichlorobenzene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**
1,2-Dibromoethane	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**
1,2-Dichlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,4-Dichlorobenzene	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
2-Butanone (MEK)	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Acetone	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Benzene	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	0.59 J	0.48 J	<b>1.4</b>	<b>1.5</b>	< 0.21
Bromodichloromethane	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Bromomethane	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Carbon tetrachloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Chlorobenzene	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	1.5	< 0.56	1.8	1.8	< 0.56
Chloroform	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloromethane	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
cis-1,2-Dichloroethene	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,3-Dichloropropene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dichlorodifluoromethane	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ethylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Freon 113	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
Isopropylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.5 J	< 0.2	0.34 J	< 0.2	< 0.2
Methyl acetate	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Methyl tert butyl ether	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylcyclohexane	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
o-Xylene	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Styrene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Tetrachloroethene	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Toluene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trans-1,2-dichloroethene	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
trans-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trichloroethene	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29

Footnotes on Page 10.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-15B	OB-16	OB-17	OB-18	OB-18 DUP	OB-19	OB-20A	OB20B	OB20B DUP	OB-21
Sample Name	OB-15B(041207)	OB-16(041007)	OB-17(041007)	OB-18(041007)	DUP(041007) (OB-18)	OB-19(040907)	OB-20A(040307)	OB20B(040507)	DUP(040507) (OB20B)(040507)	OB-21(040907)
Sample Date	4/12/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/9/2007	4/3/2007	4/5/2007	4/5/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC (continued)</b>										
Trichlorofluoromethane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Xylene, -m,p	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Xylenes	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Total TIC, Volatile	0	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C). 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-22	OB-23	OB-24	OB-25	RW-1(10-31)	RW-1(58-79)	RW-1(97-118)	RW-1(125-146)	RW-2(19-50)
Sample Name	OB-22(040407)	OB-23(041107)	OB-24(041107)	OB-25(041207)	RW-1(10-31)(041807)	RW-1(58-79)(041807)	RW-1(97-118)(041807)	RW-1(125-146)(041807)	RW-2(19-50)(041007)
Sample Date	4/4/2007	4/11/2007	4/11/2007	4/12/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/10/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC</b>									
1,1,1-Trichloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2-Trichloroethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,1-Dichloroethane	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethene	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2,4-Trichlorobenzene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**
1,2-Dibromoethane	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**
1,2-Dichlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,4-Dichlorobenzene	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
2-Butanone (MEK)	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Acetone	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Benzene	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Bromomethane	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Carbon tetrachloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Chlorobenzene	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
Chloroform	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloromethane	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
cis-1,2-Dichloroethene	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,3-Dichloropropene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dichlorodifluoromethane	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ethylbenzene	< 0.2	0.38 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Freon 113	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
Isopropylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Methyl acetate	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Methyl tert butyl ether	< 0.31	< 0.31	0.64 J	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylcyclohexane	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
o-Xylene	< 0.31	3.2	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Styrene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Tetrachloroethene	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Toluene	< 0.2	< 0.2	< 0.2	< 0.2	2.3	2.2	1.3	1.3	3.3
Trans-1,2-dichloroethene	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
trans-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trichloroethene	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29

Footnotes on Page 15.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-22	OB-23	OB-24	OB-25	RW-1(10-31)	RW-1(58-79)	RW-1(97-118)	RW-1(125-146)	RW-2(19-50)
Sample Name	OB-22(040407)	OB-23(041107)	OB-24(041107)	OB-25(041207)	RW-1(10-31)(041807)	RW-1(58-79)(041807)	RW-1(97-118)(041807)	RW-1(125-146)(041807)	RW-2(19-50)(041007)
Sample Date	4/4/2007	4/11/2007	4/11/2007	4/12/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/10/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC (continued)</b>									
Trichlorofluoromethane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Xylene, -m,p	< 0.42	1	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Xylenes	< 0.31	4.3	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Total TIC, Volatile	0	18.9 J	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note:

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**Bold**

1

B

B

J

NA

NS

R

PCBs

SVOC

VOC

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-2(102-133)	RW-2(161-192)	RW-2(278-309)	RW-2(441-472)	RW-3(62-98)	RW-4(56-77)	RW-4(108-129)	RW-4(328-349)	RW-4(388-409)
Sample Name	RW-2(102-133)(041007)	RW-2(161-192)	RW-2(278-309)(041707)	RW-2(441-472)	RW-3(62-98)(040507)	RW-4(56-77)(040607)	RW-4(108-129)	RW-4(328-349)(040907)	RW-4(388-409)(040907)
Sample Date	4/10/2007	4/16/2007	4/17/2007	4/17/2007	4/5/2007	4/6/2007	4/9/2007	4/9/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC</b>									
1,1,1-Trichloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	< 0.28	< 0.28	< 0.28 J	< 0.28 J	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2-Trichloroethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,1-Dichloroethane	< 0.23	< 0.23	< 0.23	< 0.23	0.53 J	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethene	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2,4-Trichlorobenzene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16 J	< 0.16	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**
1,2-Dibromoethane	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**
1,2-Dichlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,4-Dichlorobenzene	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
2-Butanone (MEK)	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Acetone	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Benzene	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54 J	< 0.54	< 0.54	< 0.54
Bromomethane	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Carbon tetrachloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Chlorobenzene	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
Chloroform	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloromethane	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
cis-1,2-Dichloroethene	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,3-Dichloropropene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19 J	< 0.19	< 0.19	< 0.19
Dichlorodifluoromethane	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ethylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.29 J	< 0.2	< 0.2	< 0.2
Freon 113	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
Isopropylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Methyl acetate	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Methyl tert butyl ether	< 0.31	< 0.31	< 0.31	0.31 J	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylcyclohexane	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
o-Xylene	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Styrene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Tetrachloroethene	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28 J	< 0.28	< 0.28	< 0.28
Toluene	23	21.5	15.3	5.1	3.1	21.7	1.1	2.1	1.2
Trans-1,2-dichloroethene	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
trans-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trichloroethene	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29

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**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-2(102-133)	RW-2(161-192)	RW-2(278-309)	RW-2(441-472)	RW-3(62-98)	RW-4(56-77)	RW-4(108-129)	RW-4(328-349)	RW-4(388-409)
Sample Name	RW-2(102-133)(041007)	RW-2(161-192)	RW-2(278-309)(041707)	RW-2(441-472)	RW-3(62-98)(040507)	RW-4(56-77)(040607)	RW-4(108-129)	RW-4(328-349)(040907)	RW-4(388-409)(040907)
Sample Date	4/10/2007	4/16/2007	4/17/2007	4/17/2007	4/5/2007	4/6/2007	4/9/2007	4/9/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC (continued)</b>									
Trichlorofluoromethane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Xylene, -m,p	< 0.42	< 0.42	< 0.42	< 0.42	0.61 J	0.88 J	< 0.42	< 0.42	< 0.42
Xylenes	< 0.31	< 0.31	< 0.31	< 0.31	0.61 J	1.1	< 0.31	< 0.31	< 0.31
Total TIC, Volatile	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C). 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-5(40-51)	RW-5(65-76)	RW-5(97-118)	RW-06(53-64)	RW-06(70-81)	RW-6(98-119)	RW-07(34-45)	RW-7(49-60)	RW-07(80-101)
Sample Name	RW-5(40-51)(041307)	RW-5(65-76)(041207)	RW-5(97-118)	RW-06(53-64) (040207)	RW-06(70-81)(040307)	RW-6(98-119)(040507)	RW-07(34-45)(040307)	RW-7(49-60) (040407)	RW-07(80-101)(040307)
Sample Date	4/13/2007	4/12/2007	4/12/2007	4/2/2007	4/3/2007	4/6/2007	4/3/2007	4/4/2007	4/3/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC</b>									
1,1,1-Trichloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	< 0.28	< 0.28 J	< 0.28 J	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2-Trichloroethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,1-Dichloroethane	< 0.23	< 0.23	< 0.23	0.75 J	1.1	1.1	< 0.23	< 0.23	< 0.23
1,1-Dichloroethene	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2,4-Trichlorobenzene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16 J	< 0.16	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**
1,2-Dibromoethane	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**
1,2-Dichlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,4-Dichlorobenzene	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
2-Butanone (MEK)	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Acetone	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Benzene	<b>1.9</b>	<b>1.5</b>	<b>2.6</b>	<b>2.6</b>	<b>1.9</b>	<b>2.7</b>	< 0.21	< 0.21	< 0.21
Bromodichloromethane	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54 J	< 0.54	< 0.54	< 0.54
Bromomethane	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Carbon tetrachloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Chlorobenzene	< 0.22	< 0.22	0.28 J	0.23 J	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	14.9	15.4	22.2	6.9	4.5	11.2	< 0.56	< 0.56	< 0.56
Chloroform	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloromethane	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
cis-1,2-Dichloroethene	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,3-Dichloropropene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19 J	< 0.19	< 0.19	< 0.19
Dichlorodifluoromethane	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ethylbenzene	0.33 J	0.32 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Freon 113	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
Isopropylbenzene	0.36 J	< 0.2	< 0.2	1.4 J	1.1 J	0.92 J	< 0.2	< 0.2	< 0.2
Methyl acetate	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Methyl tert butyl ether	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylcyclohexane	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
o-Xylene	0.34 J	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Styrene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Tetrachloroethene	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28 J	< 0.28	< 0.28	< 0.28
Toluene	31.5	27.1 J	89.7	0.54 J	0.69 J	88.4	0.54 J	2.7	2.6
Trans-1,2-dichloroethene	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
trans-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trichloroethene	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29

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**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-5(40-51)	RW-5(65-76)	RW-5(97-118)	RW-06(53-64)	RW-06(70-81)	RW-6(98-119)	RW-07(34-45)	RW-7(49-60)	RW-07(80-101)
Sample Name	RW-5(40-51)(041307)	RW-5(65-76)(041207)	RW-5(97-118)	RW-06(53-64) (040207)	RW-06(70-81)(040307)	RW-6(98-119)(040507)	RW-07(34-45)(040307)	RW-7(49-60) (040407)	RW-07(80-101)(040307)
Sample Date	4/13/2007	4/12/2007	4/12/2007	4/2/2007	4/3/2007	4/6/2007	4/3/2007	4/4/2007	4/3/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC (continued)</b>									
Trichlorofluoromethane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Xylene, -m,p	1.2	0.97 J	0.44 J	6.5	0.55 J	2	< 0.42	< 0.42	< 0.42
Xylenes	1.5	0.97	0.44 J	6.5	0.55 J	2	< 0.31	< 0.31	< 0.31
Total TIC, Volatile	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C). 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-7(103-119)		SC1		Field Blanks									
	RW-7(103-119) (040407)	SC1(041107)	FB040207	FIELD BLANK 070402	FB-040307	FIELD BLANK 070403	FB(040407)	FIELD BLANK 070404	FIELD BLANK 070405	FB(040507)	FB(040607)	FIELD BLANK 070406		
Sample Name	4/4/2007	4/11/2007	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007		
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final		
Validation Status														
<b>VOC</b>														
1,1,1-Trichloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2-Trichloroethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,1-Dichloroethane	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethene	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2,4-Trichlorobenzene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16 J	
1,2-Dibromo-3-Chloropropane (DBCP)	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**
1,2-Dibromoethane	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**
1,2-Dichlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,4-Dichlorobenzene	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
2-Butanone (MEK)	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Acetone	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Benzene	< 0.21	<b>1.4</b>	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54 J
Bromomethane	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Carbon tetrachloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Chlorobenzene	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	< 0.56	1.6	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
Chloroform	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloromethane	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
cis-1,2-Dichloroethene	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,3-Dichloropropene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	< 0.5	2.9 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19 J
Dichlorodifluoromethane	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ethylbenzene	< 0.2	6.7	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Freon 113	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
Isopropylbenzene	< 0.2	3.2	< 0.2	&lt										

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-7(103-119)	SC1	Field Blanks											
	RW-7(103-119) (040407)	SC1(041107)	FB040207	FIELD BLANK 070402	FB-040307	FIELD BLANK 070403	FB(040407)	FIELD BLANK 070404	FIELD BLANK 070405	FB(040507)	FB(040607)	FIELD BLANK 070406		
Sample Name	4/4/2007	4/11/2007	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007		
Sample Date			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final		
Validation Status			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final		
<b>VOC (continued)</b>														
Trichlorofluoromethane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Xylene, -m,p	< 0.42	76.7	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Xylenes	< 0.31	82.8	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Total TIC, Volatile	0	118.5 J	0	0	0	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

## Footnotes on Page 35.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Field Blanks (continued)											
	FB(040907)	FIELD BLANK 070409	FIELD BLANK 070410	FB(041007)	FB(041107)	FB(041207)	FIELD BLANK 070412	FIELD BLANK 070413	FIELD BLANK 070416	FIELD BLANK 070417	FIELD BLANK 070418	
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/17/2007	4/18/2007	
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	
Validation Status												
<b>VOC (continued)</b>												
Trichlorofluoromethane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	
Vinyl Chloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	
Xylene, -m,p	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	
Xylenes	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	
Total TIC, Volatile	0	0	0	0	0	0	0	0	0	0	0	

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C). 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks									
	TB040207	TRIP BLANK (J57575)	TB-070402	TRIPBLANK070403	TRIPBLANK(040407)	TRIPBLANK070404	TRIPBLANK(040507)	TRIP BLANK070405	TRIPBLANK(040607)	TRIPBLANK 070406
Sample Name	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC</b>										
1,1,1-Trichloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2-Trichloroethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,1-Dichloroethane	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethene	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2,4-Trichlorobenzene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16 J
1,2-Dibromo-3-Chloropropane (DBCP)	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**
1,2-Dibromoethane	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**
1,2-Dichlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,4-Dichlorobenzene	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
2-Butanone (MEK)	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Acetone	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Benzene	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54 J
Bromomethane	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Carbon tetrachloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Chlorobenzene	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
Chloroform	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloromethane	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
cis-1,2-Dichloroethene	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,3-Dichloropropene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19 J
Dichlorodifluoromethane	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ethylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Freon 113	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
Isopropylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Methyl acetate	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Methyl tert butyl ether	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylcyclohexane	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
o-Xylene	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Styrene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Tetrachloroethene	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28 J
Toluene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trans-1,2-dichloroethene	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
trans-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trichloroethene	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29

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**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks									
	TB040207	TRIP BLANK (J57575)	TB-070402	TRIPBLANK070403	TRIPBLANK(040407)	TRIPBLANK070404	TRIPBLANK(040507)	TRIP BLANK070405	TRIPBLANK(040607)	TRIPBLANK 070406
Sample Name	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status										
<b>VOC (continued)</b>										
Trichlorofluoromethane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Xylene, -m,p	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Xylenes	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Total TIC, Volatile	0	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C). 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks (continued)									
	TRIPBLANK(040907)	TRIPBLANK070409	TRIPBLANK070410	TRIPBLANK(041007)	TRIPBLANK(041107)	TRIPBLANK(041207)	TRIP BLANK 070412	TRIP BLANK 070413	TRIPBLANK070416	TRIPBLANK 070418
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/18/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
VOC										
1,1,1-Trichloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28 J	< 0.28	< 0.28	< 0.28	< 0.28
1,1,2-Trichloroethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,1-Dichloroethane	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethene	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2,4-Trichlorobenzene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**	< 1.1**
1,2-Dibromoethane	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**	< 0.52**
1,2-Dichlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,4-Dichlorobenzene	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
2-Butanone (MEK)	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2-Hexanone	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Acetone	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Benzene	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Bromodichloromethane	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Bromomethane	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Carbon tetrachloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Chlorobenzene	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
Chloroform	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloromethane	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
cis-1,2-Dichloroethene	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,3-Dichloropropene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Cyclohexane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dichlorodifluoromethane	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Ethylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Freon 113	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
Isopropylbenzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Methyl acetate	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
Methyl tert butyl ether	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylcyclohexane	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
o-Xylene	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Styrene	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Tetrachloroethene	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Toluene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trans-1,2-dichloroethene	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
trans-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Trichloroethene	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29

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**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks (continued)									
	TRIPBLANK(040907)	TRIPBLANK070409	TRIPBLANK070410	TRIPBLANK(041007)	TRIPBLANK(041107)	TRIPBLANK(041207)	TRIP BLANK 070412	TRIP BLANK 070413	TRIPBLANK070416	TRIPBLANK 070418
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/18/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>VOC (continued)</b>										
Trichlorofluoromethane	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vinyl Chloride	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Xylene, -m,p	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Xylenes	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Total TIC, Volatile	0	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 5. Summary of Well Groundwater Analytical Results - SVOCs, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-1	OB-2	OB-3	OB-4	OB-5	OB-6	OB7	OB-10	OB-12	OB-13	OB-14A	OB-14B	
Sample Name	GWQS <sup>(1)</sup>	OB-1(040607) 4/6/2007	OB-2(040607) 4/6/2007	OB-3(040307) 4/3/2007	OB-4(040607) 4/6/2007	OB-5(040407) 4/4/2007	OB-6(040607) 4/6/2007	OB7(041107) 4/11/2007	OB-10 (040207) 4/2/2007	OB-12(040307) 4/3/2007	OB-13(040307) 4/3/2007	OB-14A(040907) 4/9/2007	OB-14B(040907) 4/9/2007
Sample Date		Final	Final	Final	Final								
Validation Status	<b>SVOC</b>												
1,1'-Biphenyl	400	< 0.36	< 0.37	< 0.37	< 0.37	< 0.36	< 0.36	< 0.33	< 0.38	< 0.37	< 0.38	< 0.35	< 0.38
2,4,5-Trichlorophenol	700	< 2.1	< 2.2	< 2.2	< 2.2	< 2.1	< 2.1	< 1.9	< 2.3	< 2.2	< 2.2	< 2.1	< 2.2
2,4,6-Trichlorophenol	20	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3	< 1.5	< 1.4	< 1.4	< 1.3	< 1.4
2,4-Dichlorophenol	20	< 1.7	< 1.8	< 1.8	< 1.8	< 1.7	< 1.7	< 1.6	< 1.8	< 1.8	< 1.8	< 1.7	< 1.8
2,4-Dimethylphenol	100	< 1.8	< 1.8	< 1.9	< 1.9	< 1.8	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.7	< 1.9
2,4-Dinitrophenol	40	< 0.99	< 1	< 1	< 1	< 0.97	< 0.98	< 0.89	< 1	< 1	< 1	< 0.95	< 1
2,4-Dinitrotoluene	10	< 0.96	< 0.97	< 0.98	< 0.98	< 0.93	< 0.95	< 0.86	< 1	< 0.98	< 0.99	< 0.91	< 0.99
2,6-Dinitrotoluene	10	< 0.62	< 0.63	< 0.64	< 0.64	< 0.61	< 0.61	< 0.56	< 0.66	< 0.64	< 0.64	< 0.59	< 0.64
2-Chloronaphthalene	600	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.98	< 1.2	< 1.1	< 1.1	< 1	< 1.1
2-Chlorophenol	40	< 1.1	< 1.1	< 1.1	< 1.1	< 1	< 1	< 0.95	< 1.1	< 1.1	< 1.1	< 1	< 1.1
2-Methylnaphthalene	NS	< 0.45	< 0.46	< 0.46	< 0.46	< 0.44	< 0.45	< 0.41	< 0.48	< 0.46	< 0.47	< 0.43	< 0.47
2-Methylphenol	NS	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.4	< 1.6	< 1.5	< 1.6	< 1.4	< 1.6
2-Nitroaniline	NS	< 0.74	< 0.74	< 0.75	< 0.75	< 0.72	< 0.73	< 0.66	< 0.78	< 0.75	< 0.76	< 0.7	< 0.76
2-Nitrophenol	NS	< 2	< 2	< 2.1	< 2.1	< 2	< 2	< 1.8	< 2.1	< 2.1	< 2.1	< 1.9	< 2.1
3&4-Methylphenol	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5
3,3'-Dichlorobenzidine	30	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3 J	< 1.3	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.4
3-Nitroaniline	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3	< 1.5	< 1.4	< 1.4	< 1.3	< 1.4
4,6-Dinitro-2-methylphenol	NS	< 0.8	< 0.81	< 0.82	< 0.82	< 0.78	< 0.79	< 0.72	< 0.85	< 0.82	< 0.83	< 0.77	< 0.83
4-Bromophenyl phenyl ether	NS	< 0.33	< 0.34	< 0.34	< 0.34	< 0.33	< 0.33	< 0.3	< 0.35	< 0.34	< 0.34	< 0.32	< 0.34
4-Chloro-3-Methylphenol	NS	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.2	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4
4-Chloroaniline	30	< 0.44	< 0.45	< 0.45	< 0.45	< 0.43	< 0.44	< 0.4	< 0.47 J	< 0.45	< 0.46	< 0.42	< 0.46
4-Chlorophenyl phenyl ether	NS	< 0.48	< 0.48	< 0.49	< 0.49	< 0.47	< 0.47	< 0.43	< 0.51	< 0.49	< 0.5	< 0.46	< 0.5
4-Nitroaniline	NS	< 0.8	< 0.81	< 0.82	< 0.82	< 0.78	< 0.79	< 0.72	< 0.85	< 0.82	< 0.83	< 0.77	< 0.83
4-Nitrophenol	NS	< 0.94	< 0.95	< 0.96	< 0.96	< 0.92	< 0.93	< 0.84	< 0.99	< 0.96	< 0.97	< 0.9	< 0.97
Acetophenone	700	< 0.42	< 0.42	< 0.42	< 0.42	< 0.41	< 0.41	< 0.37	< 0.44	< 0.42	< 0.43	< 0.4	< 0.43
Atrazine	3	< 0.18	< 0.18	< 0.19	< 0.19	< 0.18	< 0.18	< 0.16	< 0.19	< 0.19	< 0.19	< 0.17	< 0.19
Benzaldehyde	NS	< 0.29	< 0.3	< 0.3	< 0.3	< 0.29 R	< 0.29	< 0.27	< 0.31	< 0.3	< 0.3	< 0.28	< 0.3
Benzyl butyl phthalate	100	< 0.66	< 0.67	< 0.67	< 0.67	< 0.64	< 0.65	< 0.59	< 0.7	< 0.67	< 0.68	< 0.63	< 0.68
bis(2-Chloroethoxy)methane	NS	< 0.73	< 0.73	< 0.74	< 0.74	< 0.71	< 0.72	< 0.65	< 0.77	< 0.74	< 0.75	< 0.7	< 0.75
bis(2-Chloroethyl)ether	7	< 0.59	< 0.6	< 0.6	< 0.6	< 0.58	< 0.58	< 0.53	< 0.62	< 0.6	< 0.61	< 0.56	< 0.61
bis(2-Chloroisopropyl)ether	300	< 0.82	< 0.83	< 0.84	< 0.84	< 0.8	< 0.81	< 0.74	< 0.87 J	< 0.84	< 0.85	< 0.79	< 0.85
bis(2-Ethylhexyl)phthalate	3	< 0.73	< 0.74	< 0.75	< 0.75	< 0.72	< 0.73	2.6	< 0.78	< 0.75	1.6 J	< 0.7	< 0.76
Caprolactam	NS	< 0.35	< 0.35	< 0.36	< 0.36	< 0.34	< 0.35	< 0.32	< 0.37	< 0.36	< 0.36	< 0.34	< 0.36
Carbazole	NS	< 0.4	< 0.41	< 0.41	< 0.41	< 0.4	< 0.4	< 0.36	< 0.43	< 0.41	< 0.42	< 0.39	< 0.42
Dibenzofuran	NS	< 0.38	< 0.39	< 0.39	< 0.39	< 0.37	< 0.38	< 0.34	< 0.4	< 0.39	< 0.4	< 0.37	< 0.4
Diethyl phthalate	6,000	< 0.43	< 0.44	< 0.44	< 0.44	< 0.42	< 0.43	< 0.39	< 0.46	< 0.44	< 0.45	< 0.41	< 0.45
Dimethyl phthalate	NS	< 0.36	< 0.37	< 0.37	< 0.37	< 0.36	< 0.36	< 0.33	< 0.39	< 0.37	< 0.38	< 0.35	< 0.38
di-n-butyl phthalate	700	< 0.66	< 0.67	< 0.67	< 0.67	< 0.64	< 0.65	< 0.59	< 0.7	< 0.67	< 0.68	< 0.63	< 0.68
di-n-octylphthalate													

**Table 5. Summary of Well Groundwater Analytical Results - SVOCs, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-1	OB-2	OB-3	OB-4	OB-5	OB-6	OB7	OB-10	OB-12	OB-13	OB-14A	OB-14B	
Sample Name	GWQS <sup>(1)</sup>	OB-1(040607)	OB-2(040607)	OB-3(040307)	OB-4(040607)	OB-5(040407)	OB-6(040607)	OB7(041107)	OB-10 (040207)	OB-12(040307)	OB-13(040307)	OB-14A(040907)	OB-14B(040907)
Sample Date		4/6/2007	4/6/2007	4/3/2007	4/6/2007	4/4/2007	4/6/2007	4/11/2007	4/2/2007	4/3/2007	4/3/2007	4/9/2007	4/9/2007
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Total TIC, Semi-Volatile	NS	0	0	0	349.9 J	35 J	0	0	0	0	0	247.6 J	23.8 J
<b>SVOC - SIM Method</b>													
Acenaphthene	400	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.017	< 0.02	< 0.019	< 0.02	< 0.018	< 0.02	
Acenaphthylene	NS	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.01	< 0.0095	< 0.011	< 0.011	< 0.011	< 0.01	< 0.011
Anthracene	2,000	< 0.023	< 0.023	< 0.024	< 0.024	< 0.023	< 0.023	< 0.021	< 0.025	< 0.024	< 0.024	< 0.022	< 0.024
Benzo(a)anthracene	0.1 [0.2]	< 0.0076	< 0.0076	< 0.0077	< 0.0077	< 0.0074	< 0.0075	< 0.0068	< 0.008	< 0.0077	< 0.0078	< 0.0072	< 0.0078
Benzo(a)pyrene	0.1 [0.2]	< 0.019	< 0.019	< 0.019	< 0.019	< 0.018	< 0.019	< 0.017	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
Benzo(b)fluoranthene	0.2 [10]	< 0.04	< 0.041	< 0.041	< 0.041	< 0.039	< 0.04	< 0.036	< 0.043	< 0.041	< 0.042	< 0.039	< 0.042
Benzo(g,h,i)perylene	NS	< 0.02	< 0.02	< 0.02	< 0.02	< 0.019	< 0.02	< 0.018	< 0.021	< 0.02	< 0.02	< 0.019	< 0.02
Benzo(k)fluoranthene	0.5	< 0.017	< 0.018	< 0.018	< 0.018	< 0.017	< 0.017	< 0.016	< 0.018	< 0.018	< 0.018	< 0.017	< 0.018
Chrysene	5	< 0.019	< 0.019	< 0.019	< 0.019	< 0.018	< 0.018	< 0.017	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.018	< 0.018	< 0.019	< 0.019	< 0.018	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.017	< 0.019
Fluoranthene	300	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0098	< 0.0099	< 0.009	< 0.011	< 0.01	< 0.01	< 0.0096	< 0.01
Fluorene	300	< 0.022	< 0.023	< 0.023	< 0.023	< 0.022	< 0.022	< 0.02	< 0.024	< 0.023	< 0.023	< 0.021	< 0.023
Hexachlorobenzene	0.02 [10]	< 0.022*	< 0.022*	< 0.023*	< 0.023*	< 0.022*	< 0.022*	< 0.02	< 0.024*	< 0.023*	< 0.023*	< 0.023*	< 0.023*
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.012	< 0.012	< 0.013	< 0.013	< 0.012	< 0.012	< 0.011	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013
Naphthalene	300	< 0.029	< 0.029	< 0.029	1.12	< 0.028	< 0.028	< 0.026	< 0.03	< 0.029	< 0.03	< 0.027	< 0.03
Pentachlorophenol	0.3 [1]	< 0.33*	< 0.34*	< 0.34*	< 0.34*	< 0.33*	< 0.33*	< 0.3	< 0.35*	< 0.34*	< 0.34*	< 0.32* R	< 0.34* R
Phenanthrene	NS	< 0.023	< 0.024	< 0.024	< 0.024	< 0.023	< 0.023	< 0.021	< 0.025	< 0.024	< 0.024	< 0.022	< 0.024
Pyrene	200	< 0.016	< 0.016	< 0.016	< 0.016	< 0.015	< 0.015	< 0.014	< 0.016	< 0.016	< 0.016	< 0.015	< 0.016

Footnotes on Page 5.

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-15B	OB-16	OB-17	OB-18	OB-18 DUP	OB-19	OB-20A	OB20B	OB20B DUP	OB-21
Sample Name	OB-15B(041207)	OB-16(041007)	OB-17(041007)	OB-18(041007)	DUP(041007) (OB-18)	OB-19(040907)	OB-20A(040307)	OB20B(040507)	DUP(040507) (OB20B)(040507)	OB-21(040907)
Sample Date	4/12/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/9/2007	4/3/2007	4/5/2007	4/5/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>SVOC</b>										
1,1'-Biphenyl	< 0.36	< 0.36	< 0.34	< 0.33	< 0.35	< 0.34 J	< 0.36	< 0.42 J	< 0.36 J	< 0.36
2,4,5-Trichlorophenol	< 2.1 J	< 2.1	< 2	< 1.9	< 2.1	< 2 J	< 2.1	< 2.5 J	< 2.1 J	< 2.1
2,4,6-Trichlorophenol	< 1.4 J	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3 J	< 1.4	< 1.6 J	< 1.4 J	< 1.4
2,4-Dichlorophenol	< 1.7 J	< 1.7	< 1.6	< 1.6	< 1.7	< 1.6 J	< 1.7	< 2 J	< 1.7 J	< 1.7
2,4-Dimethylphenol	< 1.8 J	< 1.8	< 1.7	< 1.6	< 1.7	< 1.7 J	< 1.8	< 2.1 J	< 1.8 J	< 1.8
2,4-Dinitrophenol	< 0.99 J	< 0.99	< 0.92	< 0.89	< 0.95	< 0.93 J	< 0.99	< 1.2 J	< 0.98 J	< 0.98
2,4-Dinitrotoluene	< 0.96	< 0.96	< 0.89	< 0.86	< 0.91	< 0.9 J	< 0.96	< 1.1 J	< 0.95 J	< 0.95
2,6-Dinitrotoluene	< 0.62	< 0.62	< 0.58	< 0.56	< 0.59	< 0.58 J	< 0.62	< 0.73 J	< 0.61 J	< 0.61
2-Chloronaphthalene	< 1.1	< 1.1	< 1	< 0.98	< 1	< 1 J	< 1.1	< 1.3 J	< 1.1 J	< 1.1
2-Chlorophenol	< 1.1 J	< 1.1	< 0.98	< 0.95	< 1	< 0.99 J	< 1.1	< 1.2 J	< 1 J	< 1
2-Methylnaphthalene	< 0.45	< 0.45	< 0.42	< 0.41	< 0.43	< 0.43 J	< 0.45	< 0.53 J	< 0.45 J	< 0.45
2-Methylphenol	< 1.5 J	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4 J	< 1.5	< 1.8 J	< 1.5 J	< 1.5
2-Nitroaniline	< 0.74	< 0.74	< 0.68	< 0.66	< 0.7	< 0.69 J	< 0.74	< 0.86 J	< 0.73 J	< 0.73
2-Nitrophenol	< 2 J	< 2	< 1.9	< 1.8	< 1.9	< 1.9 J	< 2	< 2.4 J	< 2 J	< 2
3&4-Methylphenol	< 1.4 J	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3 J	< 1.4	< 1.6 J	< 1.4 J	< 1.4
3,3'-Dichlorobenzidine	< 1.4	< 1.4	< 1.3	< 1.2	< 1.3	< 1.3 J	< 1.4	< 1.6 J	< 1.3 J	< 1.3
3-Nitroaniline	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3 J	< 1.4	< 1.6 J	< 1.4 J	< 1.4
4,6-Dinitro-2-methylphenol	< 0.8 J	< 0.8	< 0.74	< 0.72	< 0.77	< 0.75 J	< 0.8	< 0.94 J	< 0.79 J	< 0.79
4-Bromophenyl phenyl ether	< 0.33	< 0.33	< 0.31	< 0.3	< 0.32	< 0.31 J	< 0.33	< 0.39 J	< 0.33 J	< 0.33
4-Chloro-3-Methylphenol	< 1.3 J	< 1.3	< 1.2	< 1.2	< 1.3	< 1.2 J	< 1.3	< 1.5 J	< 1.3 J	< 1.3
4-Chloroaniline	< 0.44	< 0.44	< 0.41	< 0.4	< 0.42	< 0.41 J	< 0.44	< 0.52 J	< 0.44 J	< 0.44
4-Chlorophenyl phenyl ether	< 0.48	< 0.48	< 0.44	< 0.43	< 0.46	< 0.45 J	< 0.48	< 0.56 J	< 0.47 J	< 0.47
4-Nitroaniline	< 0.8	< 0.8	< 0.74	< 0.72	< 0.77	< 0.75 J	< 0.8	< 0.94 J	< 0.79 J	< 0.79
4-Nitrophenol	< 0.94 J	< 0.94	< 0.87	< 0.84	< 0.9	< 0.88 J	< 0.94	< 1.1 J	< 0.93 J	< 0.93
Acetophenone	< 0.42	< 0.42	< 0.39	< 0.37	< 0.4	< 0.39 J	< 0.42	< 0.49 J	< 0.41 J	< 0.41
Atrazine	< 0.18	< 0.18	< 0.17	< 0.16	< 0.17	< 0.17 J	< 0.18	< 0.21 J	< 0.18 J	< 0.18
Benzaldehyde	< 0.29	< 0.29	< 0.27	< 0.27	< 0.28	< 0.28 J	< 0.29	< 0.34 J	< 0.29 J	< 0.29
Benzyl butyl phthalate	< 0.66	< 0.66	< 0.61	< 0.59	< 0.63	< 0.62 J	< 0.66	< 0.77 J	< 0.65 J	< 0.65
bis(2-Chloroethoxy)methane	< 0.73	< 0.73	< 0.67	< 0.65	< 0.7	< 0.68 J	< 0.73	< 0.85 J	< 0.72 J	< 0.72
bis(2-Chloroethyl)ether	< 0.59	< 0.59	< 0.55	< 0.53	< 0.56	< 0.55 J	< 0.59	< 0.69 J	< 0.58 J	< 0.58
bis(2-Chloroisopropyl)ether	< 0.82	< 0.82	< 0.76	< 0.74	< 0.79	< 0.77 J	< 0.82	< 0.96 J	< 0.81 J	< 0.81
bis(2-Ethylhexyl)phthalate	< 0.73	< 0.73	< 0.68	< 0.66	< 0.7	< 0.69 J	< 0.73	< 0.86 J	< 0.73 J	< 0.73
Caprolactam	< 0.35	< 0.35	< 0.32	< 0.32	< 0.34	< 0.33 J	< 0.35	< 0.41 J	< 0.35 J	< 0.35
Carbazole	< 0.4	< 0.4	< 0.38	< 0.36	< 0.39	< 0.38 J	< 0.4	< 0.47 J	< 0.4 J	< 0.4
Dibenzofuran	< 0.38	< 0.38	< 0.35	< 0.34	< 0.37	< 0.36 J	< 0.38	< 0.45 J	< 0.38 J	< 0.38
Diethyl phthalate	< 0.43	< 0.43	< 0.4	< 0.39	< 0.41	< 0.41 J	< 0.43	< 0.51 J	< 0.43 J	< 0.43
Dimethyl phthalate	< 0.36	< 0.36	< 0.34	< 0.33	< 0.35	< 0.34 J	< 0.36	< 0.43 J	< 0.36 J	< 0.36
di-n-butyl phthalate	< 0.66	< 0.66	< 0.61	< 0.59	< 0.63	< 0.62 J	< 0.66	< 0.77 J	< 0.65 J	< 0.65
di-n-octylphthalate	< 0.63	< 0.63	< 0.59	< 0.57	< 0.61	< 0.59 J	< 0.63	< 0.74 J	< 0.63 J	< 0.63 J
Hexachlorobutadiene	< 0.19	< 0.19	< 0.18	< 0.18	< 0.19	< 0.18 J	< 0.19 J	< 0.23 J	< 0.19 J	< 0.19
Hexachlorocyclopentadiene	< 0.45	< 0.45	< 0.42	< 0.41	< 0.43	< 0.42 J	< 0.45	< 0.53 J	< 0.45 J	< 0.45
Hexachloroethane	< 0.31	< 0.31	< 0.29	< 0.28	< 0.3	< 0.29 J	< 0.31 J	< 0.37 J	< 0.31 J	< 0.31
Isophrone	< 0.65	< 0.65	< 0.61	< 0.59	< 0.63	< 0.61 J	< 0.65	< 0.76 J	< 0.65 J	< 0.65
Nitrobenzene	< 0.47	< 0.47	< 0.43	< 0.42	< 0.45	< 0.44 J	< 0.47	< 0.54 J	< 0.46 J	< 0.46
N-Nitroso-di-n-Propylamine	< 0.52	< 0.52	< 0.48	< 0.47	< 0.5	< 0.49 J	< 0.52	< 0.61 J	< 0.51 J	< 0.51
N-Nitrosodiphenylamine	< 0.57	< 0.57	< 0.53	< 0.52	< 0.55	< 0.54 J	< 0.57	< 0.67 J	< 0.57 J	< 0.57
Phenol	< 0.55 J	< 0.55	< 0							

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-15B	OB-16	OB-17	OB-18	OB-18 DUP	OB-19	OB-20A	OB20B	OB20B DUP	OB-21
Sample Name	OB-15B(041207)	OB-16(041007)	OB-17(041007)	OB-18(041007)	DUP(041007) (OB-18)	OB-19(040907)	OB-20A(040307)	OB20B(040507)	DUP(040507) (OB20B)(040507)	OB-21(040907)
Sample Date	4/12/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/9/2007	4/3/2007	4/5/2007	4/5/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Total TIC, Semi-Volatile	0	6.3 J	0	0	0	0	5.4 J	6.4 J	12.8 J	0
<b>SVOC - SIM Method</b>										
Acenaphthene	< 0.019	< 0.019	< 0.018	< 0.017	< 0.018	< 0.018 J	< 0.019	< 0.022 J	< 0.019 J	< 0.019
Acenaphthylene	< 0.011	< 0.011	< 0.0098	< 0.0095	< 0.01	< 0.0099 J	< 0.011	< 0.012 J	< 0.01 J	< 0.01
Anthracene	< 0.023	< 0.023	< 0.022	< 0.021	< 0.022	< 0.022 J	< 0.023	< 0.027 J	< 0.023 J	< 0.023
Benzo(a)anthracene	< 0.0076	< 0.0076	< 0.007	< 0.0068	< 0.0072	< 0.0071 J	< 0.0076	< 0.0088 J	< 0.0075 J	< 0.0075
Benzo(a)pyrene	< 0.019	< 0.019	< 0.017	< 0.017	< 0.018	< 0.018 J	< 0.019	< 0.022 J	< 0.019 J	< 0.019
Benzo(b)fluoranthene	< 0.04	< 0.04	< 0.037	< 0.036	< 0.039	< 0.038 J	< 0.04	< 0.047 J	< 0.04 J	< 0.04
Benzo(g,h,i)perylene	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.019 J	< 0.02	< 0.023 J	< 0.02 J	< 0.02
Benzo(k)fluoranthene	< 0.017	< 0.017	< 0.016	< 0.016	< 0.017	< 0.016 J	< 0.017	< 0.02 J	< 0.017 J	< 0.017
Chrysene	< 0.019	< 0.019	< 0.017	< 0.017	< 0.018	< 0.017 J	< 0.019	< 0.022 J	< 0.018 J	< 0.018
Dibenzo(a,h)anthracene	< 0.018	< 0.018	< 0.017	< 0.016	< 0.017	< 0.017 J	< 0.018	< 0.021 J	< 0.018 J	< 0.018
Fluoranthene	< 0.01	< 0.01	< 0.0093	< 0.009	< 0.0096	< 0.0094 J	< 0.01	< 0.012 J	< 0.0099 J	< 0.0099
Fluorene	< 0.022	< 0.022	< 0.021	< 0.02	< 0.021	< 0.021 J	< 0.022	< 0.026 J	< 0.022 J	< 0.022
Hexachlorobenzene	< 0.022*	< 0.022*	< 0.021*	< 0.02	< 0.021*	< 0.021* J	< 0.022*	< 0.026* J	< 0.022* J	< 0.022*
Indeno(1,2,3-cd)pyrene	< 0.012	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012 J	< 0.012	< 0.014 J	< 0.012 J	< 0.012
Naphthalene	< 0.029	< 0.029	< 0.027	< 0.026	< 0.027	< 0.027 J	0.298	0.316 J	0.357 J	< 0.028
Pentachlorophenol	< 0.33* J	< 0.33*	< 0.31*	< 0.3	< 0.32*	< 0.31* R	< 0.33*	< 0.39* J	< 0.33* J	< 0.33* R
Phenanthrene	< 0.023	< 0.023	< 0.022	< 0.021	< 0.022	< 0.022 J	< 0.023	< 0.027 J	< 0.023 J	< 0.023
Pyrene	< 0.016	< 0.016	< 0.014	< 0.014	< 0.015	< 0.015 J	< 0.016	< 0.018 J	< 0.015 J	< 0.015

Footnotes on Page 10.

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-22	OB-23	OB-24	OB-25	RW-1(10-31)	RW-1(58-79)	RW-1(97-118)	RW-1(125-146)	RW-2(19-50)
Sample Name	OB-22(040407)	OB-23(041107)	OB-24(041107)	OB-25(041207)	RW-1(10-31)(041807)	RW-1(58-79)(041807)	RW-1(97-118)(041807)	RW-1(125-146)(041807)	RW-2(19-50)(041007)
Sample Date	4/4/2007	4/11/2007	4/11/2007	4/12/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/10/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>SVOC</b>									
1,1'-Biphenyl	< 0.36	< 0.45	< 0.37	< 0.33	< 0.34	< 0.38	< 0.33	< 0.38	< 0.34
2,4,5-Trichlorophenol	< 2.1	< 2.7	< 2.2	< 1.9	< 2	< 2.3	< 1.9	< 2.2	< 2
2,4,6-Trichlorophenol	< 1.4	< 1.8	< 1.4	< 1.3	< 1.3	< 1.5	< 1.3	< 1.4	< 1.3
2,4-Dichlorophenol	< 1.7	< 2.2	< 1.8	< 1.6	< 1.6	< 1.8	< 1.6	< 1.8	< 1.6
2,4-Dimethylphenol	< 1.8	< 2.3	< 1.8	< 1.6	< 1.7	< 1.9	< 1.6	< 1.9	< 1.7
2,4-Dinitrophenol	< 0.99	< 1.2	< 1	< 0.89	< 0.94	< 1	< 0.89	< 1	< 0.94
2,4-Dinitrotoluene	< 0.96	< 1.2	< 0.97	< 0.86	< 0.91	< 1	< 0.86	< 0.99	< 0.91
2,6-Dinitrotoluene	< 0.62	< 0.78	< 0.63	< 0.56	< 0.59	< 0.66	< 0.56	< 0.64	< 0.59
2-Chloronaphthalene	< 1.1	< 1.4	< 1.1	< 0.98	< 1	< 1.2	< 0.98	< 1.1	< 1
2-Chlorophenol	< 1.1	< 1.3	< 1.1	< 0.95	< 1	< 1.1	< 0.95	< 1.1	< 1
2-Methylnaphthalene	< 0.45	< 0.57	< 0.46	< 0.41	< 0.43	< 0.48	< 0.41	< 0.47	< 0.43
2-Methylphenol	< 1.5	< 1.9	< 1.5	< 1.4	< 1.4	< 1.6	< 1.4	< 1.6	< 1.4
2-Nitroaniline	< 0.74	< 0.92	< 0.74	< 0.66	< 0.7	< 0.78	< 0.66	< 0.76	< 0.7
2-Nitrophenol	< 2	< 2.5	< 2	< 1.8	< 1.9	< 2.1	< 1.8	< 2.1	< 1.9
3&4-Methylphenol	< 1.4	< 1.8	< 1.4	< 1.3	< 1.3	< 1.5	< 1.3	< 1.5	< 1.3
3,3'-Dichlorobenzidine	< 1.4 J	< 1.7	< 1.4	< 1.2	< 1.3	< 1.4	< 1.2	< 1.4	< 1.3
3-Nitroaniline	< 1.4	< 1.8	< 1.4	< 1.3	< 1.3	< 1.5	< 1.3	< 1.4	< 1.3
4,6-Dinitro-2-methylphenol	< 0.8	< 1	< 0.81	< 0.72	< 0.76	< 0.85	< 0.72	< 0.83	< 0.76
4-Bromophenyl phenyl ether	< 0.33	< 0.42	< 0.34	< 0.3	< 0.31	< 0.35	< 0.3	< 0.34	< 0.31
4-Chloro-3-Methylphenol	< 1.3	< 1.6	< 1.3	< 1.2	< 1.2	< 1.4	< 1.2	< 1.4	< 1.2
4-Chloroaniline	< 0.44	< 0.55	< 0.45	< 0.4	< 0.42	< 0.47	< 0.4	< 0.46	< 0.42
4-Chlorophenyl phenyl ether	< 0.48	< 0.6	< 0.48	< 0.43	< 0.45	< 0.51	< 0.43	< 0.5	< 0.45
4-Nitroaniline	< 0.8	< 1	< 0.81	< 0.72	< 0.76	< 0.85	< 0.72	< 0.83	< 0.76
4-Nitrophenol	< 0.94	< 1.2	< 0.95	< 0.84	< 0.89	< 0.99	< 0.84	< 0.97	< 0.89
Acetophenone	< 0.42	< 0.52	< 0.42	< 0.37	< 0.39	< 0.44	< 0.37	< 0.43	< 0.39
Atrazine	< 0.18	< 0.23	< 0.18	< 0.16	< 0.17	< 0.19	< 0.16	< 0.19	< 0.17
Benzaldehyde	< 0.29 R	< 0.37	< 0.3	< 0.27	< 0.28	< 0.31	< 0.27	< 0.3	< 0.28
Benzyl butyl phthalate	< 0.66	< 0.82	< 0.67	< 0.59	< 0.62	< 0.7	< 0.59	< 0.68	< 0.62
bis(2-Chloroethoxy)methane	< 0.73	< 0.91	< 0.73	< 0.65	< 0.69	< 0.77	< 0.65	< 0.75	< 0.69
bis(2-Chloroethyl)ether	< 0.59	< 0.74	< 0.6	< 0.53	< 0.56	< 0.62	< 0.53	< 0.61	< 0.56
bis(2-Chloroisopropyl)ether	< 0.82	< 1	< 0.83	< 0.74	< 0.78	< 0.87	< 0.74	< 0.85	< 0.78
bis(2-Ethylhexyl)phthalate	< 0.73	<b>6.6</b>	< 0.74	<b>3.7</b>	<b>4.8</b>	1.5 J	< 0.66	< 0.76	< 0.7
Caprolactam	< 0.35	< 0.44	< 0.35	< 0.32	< 0.33	< 0.37	< 0.32	< 0.36	< 0.33
Carbazole	< 0.4	< 0.51	< 0.41	< 0.36	< 0.38	< 0.43	< 0.36	< 0.42	< 0.38
Dibenzofuran	< 0.38	0.9 J	< 0.39	< 0.34	< 0.36	< 0.4	< 0.34	< 0.4	< 0.36
Diethyl phthalate	< 0.43	< 0.54	< 0.44	< 0.39	< 0.41	< 0.46	< 0.39	< 0.45	< 0.41
Dimethyl phthalate	< 0.36	< 0.46	< 0.37	< 0.33	< 0.35	< 0.39	< 0.33	< 0.38	< 0.35
di-n-butyl phthalate	< 0.66	< 0.82	< 0.67	< 0.59	< 0.62	< 0.7	< 0.59	< 0.68	< 0.62
di-n-octylphthalate	< 0.63	< 0.79	< 0.64	< 0.57	< 0.6	< 0.67	< 0.57	< 0.65	< 0.6
Hexachlorobutadiene	< 0.19 J	< 0.24	< 0.2	< 0.18	< 0.18 J	< 0.21 J	< 0.18 J	< 0.2 J	< 0.18
Hexachlorocyclopentadiene	< 0.45	< 0.57	< 0.46	< 0.41	< 0.43	< 0.48	< 0.41	< 0.47	< 0.43
Hexachloroethane	< 0.31 J	< 0.39	< 0.32	< 0.28	< 0.3 J	< 0.33 J	< 0.28 J	< 0.33 J	< 0.3
Isophrone	< 0.65	< 0.82	< 0.66	< 0.59	< 0.62	< 0.69	< 0.59	< 0.68	< 0.62
Nitrobenzene	< 0.47	< 0.58	< 0.47	< 0.42	< 0.44	< 0.49	< 0.42	< 0.48	< 0.44
N-Nitroso-di-n-Propylamine	< 0.52	< 0.65	< 0.53	< 0.47	< 0.49	< 0.55	< 0.47	< 0.54	< 0.49
N-Nitrosodiphenylamine	< 0.57	< 0.72	< 0.58	< 0.52	< 0.54	< 0.61	< 0.52	< 0.59	< 0.54
Phenol	< 0.55	< 0.69	< 0.56	< 0.5	< 0.52	< 0.58	< 0.5	< 0.57	< 0.52

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-22	OB-23	OB-24	OB-25	RW-1(10-31)	RW-1(58-79)	RW-1(97-118)	RW-1(125-146)	RW-2(19-50)
Sample Name	OB-22(040407)	OB-23(041107)	OB-24(041107)	OB-25(041207)	RW-1(10-31)(041807)	RW-1(58-79)(041807)	RW-1(97-118)(041807)	RW-1(125-146)(041807)	RW-2(19-50)(041007)
Sample Date	4/4/2007	4/11/2007	4/11/2007	4/12/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/10/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
Total TIC, Semi-Volatile	0	130.7 J	0	0	0	0	0	0	0
<b>SVOC - SIM Method</b>									
Acenaphthene	< 0.019	1.24	< 0.019	< 0.017	< 0.018	< 0.02	< 0.017	< 0.02	< 0.018
Acenaphthylene	< 0.011	< 0.013	< 0.011	< 0.0095	< 0.01	< 0.011	< 0.0095	< 0.011	< 0.01
Anthracene	< 0.023	< 0.029	< 0.023	< 0.021	< 0.022	< 0.025	< 0.021	< 0.024	< 0.022
Benzo(a)anthracene	< 0.0076	< 0.0094	< 0.0076	< 0.0068	< 0.0072	< 0.008	< 0.0068	< 0.0078	< 0.0072
Benzo(a)pyrene	< 0.019	< 0.023	< 0.019	< 0.017	< 0.018	< 0.02	< 0.017	< 0.019	< 0.018
Benzo(b)fluoranthene	< 0.04	< 0.05	< 0.041	< 0.036	< 0.038	< 0.043	< 0.036	< 0.042	< 0.038
Benzo(g,h,i)perylene	< 0.02	< 0.025	< 0.02	< 0.018	< 0.019	< 0.021	< 0.018	< 0.02	< 0.019
Benzo(k)fluoranthene	< 0.017	< 0.022	< 0.018	< 0.016	< 0.017	< 0.018	< 0.016	< 0.018	< 0.017
Chrysene	< 0.019	< 0.023	< 0.019	< 0.017	< 0.018	< 0.02	< 0.017	< 0.019	< 0.018
Dibenzo(a,h)anthracene	< 0.018	< 0.023	< 0.018	< 0.016	< 0.017	< 0.019	< 0.016	< 0.019	< 0.017
Fluoranthene	< 0.01	< 0.013	< 0.01	< 0.009	< 0.0095	< 0.011	< 0.009	< 0.01	< 0.0095
Fluorene	< 0.022	0.573	< 0.023	< 0.02	< 0.021	< 0.024	< 0.02	< 0.023	< 0.021
Hexachlorobenzene	< 0.022*	< 0.028*	< 0.022*	< 0.02	< 0.021*	< 0.024*	< 0.02	< 0.023*	< 0.021*
Indeno(1,2,3-cd)pyrene	< 0.012	< 0.015	< 0.012	< 0.011	< 0.012	< 0.013	< 0.011	< 0.013	< 0.012
Naphthalene	< 0.029	0.549	< 0.029	< 0.026	< 0.027	< 0.03	< 0.026	< 0.03	< 0.027
Pentachlorophenol	< 0.33*	< 0.42*	< 0.34*	< 0.3	< 0.32*	< 0.35*	< 0.3	< 0.34*	< 0.32*
Phenanthrene	< 0.023	0.397	< 0.024	< 0.021	< 0.022	< 0.025	< 0.021	< 0.024	< 0.022
Pyrene	< 0.016	< 0.019	< 0.016	< 0.014	< 0.015	< 0.016	< 0.014	< 0.016	< 0.015

Footnotes on Page 15.

Results are presented in microgram per liter (ug/L).

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**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-2(102-133)	RW-2(161-192)	RW-2(278-309)	RW-2(441-472)	RW-3(62-98)	RW-4(56-77)	RW-4(108-129)	RW-4(328-349)	RW-4(388-409)
Sample Name	RW-2(102-133)(041007)	RW-2(161-192)	RW-2(278-309)(041707)	RW-2(441-472)	RW-3(62-98)(040507)	RW-4(56-77)(040607)	RW-4(108-129)	RW-4(328-349)(040907)	RW-4(388-409)(040907)
Sample Date	4/10/2007	4/16/2007	4/17/2007	4/17/2007	4/5/2007	4/6/2007	4/9/2007	4/9/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>SVOC</b>									
1,1'-Biphenyl	< 0.33	< 0.33	< 0.36	< 0.35	< 0.33	< 0.35	< 0.33	< 0.36	< 0.33
2,4,5-Trichlorophenol	< 1.9	< 1.9	< 2.1	< 2.1	< 1.9	< 2.1	< 1.9	< 2.1	< 1.9
2,4,6-Trichlorophenol	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3
2,4-Dichlorophenol	< 1.6	< 1.6	< 1.7	< 1.7	< 1.6	< 1.7	< 1.6	< 1.7	< 1.6
2,4-Dimethylphenol	< 1.6	< 1.6	< 1.8	< 1.8	< 1.6	< 1.8	< 1.6	< 1.8	< 1.6
2,4-Dinitrophenol	< 0.89	< 0.89	< 0.98	< 0.96	< 0.89	< 0.96	< 0.89	< 0.97	< 0.89
2,4-Dinitrotoluene	< 0.86	< 0.86	< 0.95	< 0.92	< 0.86	< 0.92	< 0.86	< 0.93	< 0.86
2,6-Dinitrotoluene	< 0.56	< 0.56	< 0.61	< 0.6	< 0.56	< 0.6	< 0.56	< 0.61	< 0.56
2-Chloronaphthalene	< 0.98	< 0.98	< 1.1	< 1.1	< 0.98	< 1.1	< 0.98	< 1.1	< 0.98
2-Chlorophenol	< 0.95	< 0.95	< 1	< 1	< 0.95	< 1	< 0.95	< 1	< 0.95
2-Methylnaphthalene	< 0.41	< 0.41	< 0.45	< 0.44	< 0.41 J	< 0.44	< 0.41	< 0.44	< 0.41
2-Methylphenol	< 1.4	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
2-Nitroaniline	< 0.66	< 0.66	< 0.73	< 0.71	< 0.66	< 0.71	< 0.66	< 0.72	< 0.66
2-Nitrophenol	< 1.8	< 1.8	< 2	< 1.9	< 1.8	< 1.9	< 1.8	< 2	< 1.8
3&4-Methylphenol	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3
3,3'-Dichlorobenzidine	< 1.2	< 1.2	< 1.3	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2
3-Nitroaniline	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3
4,6-Dinitro-2-methylphenol	< 0.72	< 0.72	< 0.79	< 0.78	< 0.72	< 0.78	< 0.72	< 0.78	< 0.72
4-Bromophenyl phenyl ether	< 0.3	< 0.3	< 0.33	< 0.32	< 0.3	< 0.32	< 0.3	< 0.33	< 0.3
4-Chloro-3-Methylphenol	< 1.2	< 1.2	< 1.3	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2
4-Chloroaniline	< 0.4	< 0.4	< 0.44	< 0.43	< 0.4	< 0.43	< 0.4	< 0.43	< 0.4
4-Chlorophenyl phenyl ether	< 0.43	< 0.43	< 0.47	< 0.46	< 0.43	< 0.46	< 0.43	< 0.47	< 0.43
4-Nitroaniline	< 0.72	< 0.72	< 0.79	< 0.78	< 0.72	< 0.78	< 0.72	< 0.78	< 0.72
4-Nitrophenol	< 0.84	< 0.84	< 0.93	< 0.91	< 0.84	< 0.91	< 0.84	< 0.92	< 0.84
Acetophenone	< 0.37	< 0.37	< 0.41	< 0.4	< 0.37	< 0.4	< 0.37	< 0.41	< 0.37
Atrazine	< 0.16	< 0.16	< 0.18	< 0.18	< 0.16	< 0.18	< 0.16	< 0.18	< 0.16
Benzaldehyde	< 0.27	< 0.27	< 0.29	< 0.28	< 0.27 J	< 0.28	< 0.27	< 0.29	< 0.27
Benzyl butyl phthalate	< 0.59	< 0.59	< 0.65	< 0.64	< 0.59	< 0.64	< 0.59	< 0.64	< 0.59
bis(2-Chloroethoxy)methane	< 0.65	< 0.65	< 0.72	< 0.7	< 0.65	< 0.7	< 0.65	< 0.71	< 0.65
bis(2-Chloroethyl)ether	< 0.53	< 0.53	< 0.58	< 0.57	< 0.53	< 0.57	< 0.53	< 0.58	< 0.53
bis(2-Chloroisopropyl)ether	< 0.74	< 0.74	< 0.81	< 0.79	< 0.74	< 0.79	< 0.74	< 0.8	< 0.74
bis(2-Ethylhexyl)phthalate	<u>16.4</u>	<u>33.6</u>	<u>27.3</u>	<u>7.9</u>	< 0.66	<u>3.8</u>	< 0.66	1.5 J	1.1 J
Caprolactam	< 0.32	< 0.32	< 0.35	< 0.34	< 0.32	< 0.34	< 0.32	< 0.34	< 0.32
Carbazole	< 0.36	< 0.36	< 0.4	< 0.39	< 0.36	< 0.39	< 0.36	< 0.4	< 0.36
Dibenzofuran	< 0.34	< 0.34	< 0.38	< 0.37	< 0.34	< 0.37	< 0.34	< 0.37	< 0.34
Diethyl phthalate	< 0.39	< 0.39	< 0.43	< 0.42	< 0.39	< 0.42	< 0.39	< 0.42	< 0.39
Dimethyl phthalate	< 0.33	< 0.33	< 0.36	< 0.35	< 0.33	< 0.35	< 0.33	< 0.36	< 0.33
di-n-butyl phthalate	< 0.59	< 0.59	< 0.65	< 0.64	< 0.59	< 0.64	< 0.59	< 0.64	< 0.59
di-n-octylphthalate	< 0.57	< 0.57	< 0.63	< 0.61	< 0.57	< 0.61 J	< 0.57	< 0.62	< 0.57
Hexachlorobutadiene	< 0.18	< 0.18	< 0.19	< 0.19	< 0.18 J	< 0.19	< 0.18	< 0.19	< 0.18
Hexachlorocyclopentadiene	< 0.41	< 0.41	< 0.45	< 0.44	< 0.41	< 0.44	< 0.41	< 0.44	< 0.41
Hexachloroethane	< 0.28	< 0.28	< 0.31	< 0.3	< 0.28 J	< 0.3	< 0.28	< 0.31	< 0.28
Isophrone	< 0.59	< 0.59	< 0.65	< 0.63	< 0.59	< 0.63	< 0.59	< 0.64	< 0.59
Nitrobenzene	< 0.42	< 0.42	< 0.46	< 0.45	< 0.42	< 0.45	< 0.42	< 0.46	< 0.42
N-Nitroso-di-n-Propylamine	< 0.47	< 0.47	< 0.51	< 0.5	< 0.47	< 0.5	< 0.47	< 0.51	< 0.47
N-Nitrosodiphenylamine	< 0.52	< 0.52	< 0.57	< 0.55	< 0.52	< 0.55	< 0.52	< 0.56	< 0.52
Phenol	< 0.5	< 0.5	< 0.55	< 0.53	< 0.5	< 0.53	< 0.5	< 0.54	< 0.5

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-2(102-133)	RW-2(161-192)	RW-2(278-309)	RW-2(441-472)	RW-3(62-98)	RW-4(56-77)	RW-4(108-129)	RW-4(328-349)	RW-4(388-409)
Sample Name	RW-2(102-133)(041007)	RW-2(161-192)	RW-2(278-309)(041707)	RW-2(441-472)	RW-3(62-98)(040507)	RW-4(56-77)(040607)	RW-4(108-129)	RW-4(328-349)(040907)	RW-4(388-409)(040907)
Sample Date	4/10/2007	4/16/2007	4/17/2007	4/17/2007	4/5/2007	4/6/2007	4/9/2007	4/9/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
Total TIC, Semi-Volatile	12 J	0	8.5 J	12 J	0	15.5 J	0	0	0
<b>SVOC - SIM Method</b>									
Acenaphthene	< 0.017	< 0.017	< 0.019	< 0.018	< 0.017	< 0.018 J	< 0.017	< 0.019	< 0.017
Acenaphthylene	< 0.0095	< 0.0095	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.0095	< 0.01	< 0.0095
Anthracene	< 0.021	< 0.021	< 0.023	< 0.022	< 0.021	< 0.022	< 0.021	< 0.023	< 0.021
Benzo(a)anthracene	< 0.0068	< 0.0068	< 0.0075	< 0.0073	< 0.0068	< 0.0073	< 0.0068	< 0.0074	< 0.0068
Benzo(a)pyrene	< 0.017	< 0.017	< 0.019	< 0.018	< 0.017	< 0.018	< 0.017	< 0.018	< 0.017
Benzo(b)fluoranthene	< 0.036	< 0.036	< 0.04	< 0.039	< 0.036	< 0.039	< 0.036	< 0.039	< 0.036
Benzo(g,h,i)perylene	< 0.018	< 0.018	< 0.02	< 0.019	< 0.018	< 0.019	< 0.018	< 0.019	< 0.018
Benzo(k)fluoranthene	< 0.016	< 0.016	< 0.017	< 0.017	< 0.016	< 0.017	< 0.016	< 0.017	< 0.016
Chrysene	< 0.017	< 0.017	< 0.018	< 0.018	< 0.017	< 0.018	< 0.017	< 0.018	< 0.017
Dibenzo(a,h)anthracene	< 0.016	< 0.016	< 0.018	< 0.018	< 0.016	< 0.018	< 0.016	< 0.018	< 0.016
Fluoranthene	< 0.009	< 0.009	< 0.0099	< 0.0097	< 0.009	< 0.0097	< 0.009	< 0.0098	< 0.009
Fluorene	< 0.02	< 0.02	< 0.022	< 0.022	< 0.02	< 0.022 J	< 0.02	< 0.022	< 0.02
Hexachlorobenzene	< 0.02	< 0.02	< 0.022*	< 0.022*	< 0.02	< 0.022* J	< 0.02	< 0.022*	< 0.02
Indeno(1,2,3-cd)pyrene	< 0.011	< 0.011	< 0.012	< 0.012	< 0.011 J	< 0.012	< 0.011	< 0.012	< 0.011
Naphthalene	< 0.026	< 0.026	< 0.028	< 0.028	< 0.026	< 0.028	< 0.026	< 0.028	< 0.026
Pentachlorophenol	< 0.3	< 0.3	< 0.33*	< 0.32*	< 0.3 R	< 0.32*	< 0.3	< 0.33*	< 0.3
Phenanthrene	< 0.021	< 0.021	< 0.023	< 0.023	< 0.021	< 0.023	< 0.021	< 0.023	< 0.021
Pyrene	< 0.014	< 0.014	< 0.015	< 0.015	< 0.014	< 0.015	< 0.014	< 0.015	< 0.014

Footnotes on Page 20.

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-5(40-51)	RW-5(65-76)	RW-5(97-118)	RW-06(53-64)	RW-06(70-81)	RW-6(98-119)	RW-07(34-45)	RW-7(49-60)	RW-07(80-101)
Sample Name	RW-5(40-51)(041307)	RW-5(65-76)(041207)	RW-5(97-118)	RW-06(53-64) (040207)	RW-06(70-81)(040307)	RW-6(98-119)(040507)	RW-07(34-45)(040307)	RW-7(49-60) (040407)	RW-07(80-101)(040307)
Sample Date	4/13/2007	4/12/2007	4/12/2007	4/2/2007	4/3/2007	4/6/2007	4/3/2007	4/4/2007	4/3/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>SVOC</b>									
1,1'-Biphenyl	< 0.35	< 0.4	< 0.35	< 0.36	< 0.34	< 0.36	< 0.34	< 0.33	< 0.35 J
2,4,5-Trichlorophenol	< 2.1	< 2.4	< 2.1	< 2.1	< 2	< 2.1	< 2	< 1.9	< 2.1 J
2,4,6-Trichlorophenol	< 1.3	< 1.5	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4 J
2,4-Dichlorophenol	< 1.7	< 1.9	< 1.7	< 1.7	< 1.6	< 1.7	< 1.6	< 1.6	< 1.7 J
2,4-Dimethylphenol	3.5 J	2.8 J	< 1.7	< 1.8	< 1.7	< 1.8	< 1.7	< 1.6	< 1.8 J
2,4-Dinitrophenol	< 0.95	< 1.1	< 0.95	< 0.99	< 0.92	< 0.97	< 0.93	< 0.89	< 0.96 J
2,4-Dinitrotoluene	< 0.91 J	< 1	< 0.91	< 0.96	< 0.89	< 0.93	< 0.9	< 0.86	< 0.92 J
2,6-Dinitrotoluene	< 0.59 J	< 0.68	< 0.59	< 0.62	< 0.58	< 0.61	< 0.58	< 0.56	< 0.6 J
2-Chloronaphthalene	< 1	< 1.2	< 1	< 1.1	< 1	< 1.1	< 1	< 0.98	< 1.1 J
2-Chlorophenol	< 1	< 1.2	< 1	< 1.1	< 0.98	< 1	< 0.99	< 0.95	< 1 J
2-Methylnaphthalene	< 0.43	< 0.5	< 0.43	< 0.45	< 0.42	< 0.44	< 0.43	< 0.41	< 0.44 J
2-Methylphenol	< 1.4	< 1.7	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.4	< 1.5 J
2-Nitroaniline	< 0.7	< 0.81	< 0.7	< 0.74	< 0.68	< 0.72	< 0.69	< 0.66	< 0.71 J
2-Nitrophenol	< 1.9 J	< 2.2	< 1.9	< 2	< 1.9	< 2	< 1.9	< 1.8	< 1.9 J
3&4-Methylphenol	< 1.4	< 1.5	1.9 J	< 1.4	< 1.3	1.7 J	< 1.3	< 1.3	< 1.4 J
3,3'-Dichlorobenzidine	< 1.3	< 1.5	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.2	< 1.3 J
3-Nitroaniline	< 1.3	< 1.5	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4 J
4,6-Dinitro-2-methylphenol	< 0.77	< 0.88	< 0.77	< 0.8	< 0.74	< 0.78	< 0.75	< 0.72	< 0.78 J
4-Bromophenyl phenyl ether	< 0.32	< 0.36	< 0.32	< 0.33	< 0.31	< 0.33	< 0.31	< 0.3	< 0.32 J
4-Chloro-3-Methylphenol	< 1.3	< 1.4	< 1.3	< 1.3	< 1.2	< 1.3	< 1.2	< 1.2	< 1.3 J
4-Chloroaniline	< 0.42	< 0.48	< 0.42	< 0.44 J	< 0.41	< 0.43	< 0.41	< 0.4	< 0.43 J
4-Chlorophenyl phenyl ether	< 0.46	< 0.53	< 0.46	< 0.48	< 0.44	< 0.47	< 0.45	< 0.43	< 0.46 J
4-Nitroaniline	< 0.77	< 0.88	< 0.77	< 0.8	< 0.74	< 0.78	< 0.75	< 0.72	< 0.78 J
4-Nitrophenol	< 0.9	< 1	< 0.9	< 0.94	< 0.87	< 0.92	< 0.88	< 0.84	< 0.91 J
Acetophenone	< 0.4	< 0.46	< 0.4	< 0.42	< 0.39	< 0.41	< 0.39	< 0.37	< 0.4 J
Atrazine	< 0.17	< 0.2	< 0.17	< 0.18	< 0.17	< 0.18	< 0.17	< 0.16	< 0.18 J
Benzaldehyde	< 0.28	< 0.32	< 0.28	< 0.29	< 0.27 R	< 0.29	< 0.28 R	< 0.27	< 0.28 R
Benzyl butyl phthalate	< 0.63	< 0.72	< 0.63	< 0.66	< 0.61	< 0.64	< 0.62	< 0.59	< 0.64 J
bis(2-Chloroethoxy)methane	< 0.7	< 0.8	< 0.7	< 0.73	< 0.67	< 0.71	< 0.68	< 0.65	< 0.7 J
bis(2-Chloroethyl)ether	< 0.56	< 0.65	< 0.56	< 0.59	< 0.55	< 0.58	< 0.55	< 0.53	< 0.57 J
bis(2-Chloroisopropyl)ether	< 0.79	< 0.9	< 0.79	< 0.82 J	< 0.76	< 0.8	< 0.77	< 0.74	< 0.79 J
bis(2-Ethylhexyl)phthalate	<u>20.1</u>	<u>45.9</u>	<u>10.3</u>	< 0.73	< 0.68	<u>7.8</u>	< 0.69	<u>4.8 J</u>	< 0.71 J
Caprolactam	< 0.34	< 0.38	< 0.34	< 0.35	< 0.32	< 0.34	< 0.33	< 0.32	< 0.34 J
Carbazole	< 0.39	< 0.44	< 0.39	< 0.4	< 0.38	< 0.4	< 0.38	< 0.36	< 0.39 J
Dibenzofuran	< 0.37	< 0.42	< 0.37	< 0.38	< 0.35	< 0.37	< 0.36	< 0.34	< 0.37 J
Diethyl phthalate	1.6 J	< 0.48	< 0.41	< 0.43	< 0.4	< 0.42	< 0.41	< 0.39	< 0.42 J
Dimethyl phthalate	< 0.35	< 0.4	< 0.35	< 0.36	< 0.34	< 0.36	< 0.34	< 0.33	< 0.35 J
di-n-butyl phthalate	< 0.63	< 0.72	< 0.63	< 0.66	< 0.61	< 0.64	< 0.62	< 0.59	< 0.64 J
di-n-octylphthalate	< 0.61	< 0.69	< 0.61	< 0.63	< 0.59	< 0.62 J	< 0.59	< 0.57	< 0.61 J
Hexachlorobutadiene	< 0.19	< 0.21	< 0.19	< 0.19	< 0.18	< 0.19	< 0.18	< 0.18	< 0.19 J
Hexachlorocyclopentadiene	< 0.43	< 0.5	< 0.43	< 0.45	< 0.42	< 0.44	< 0.42	< 0.41	< 0.44 J
Hexachloroethane	< 0.3	< 0.35	< 0.3	< 0.31	< 0.29	< 0.31	< 0.29	< 0.28	< 0.3 J
Isophrone	1.2 J	< 0.72	< 0.63	< 0.65	< 0.61	< 0.64	< 0.61	< 0.59	< 0.63 J
Nitrobenzene	< 0.45	< 0.51	< 0.45	< 0.47	< 0.43	< 0.46	< 0.44	< 0.42	< 0.45 J
N-Nitroso-di-n-Propylamine	< 0.5	< 0.57	< 0.5	< 0.52	< 0.48	< 0.51	< 0.49	< 0.47	< 0.5 J
N-Nitrosodiphenylamine	< 0.55	< 0.63	< 0.55	< 0.57	< 0.53	< 0.56	< 0.54	< 0.52	< 0.55 J
Phenol	< 0.53	< 0.6	< 0.53	< 0.55	< 0.51	< 0.54	< 0.52	< 0.5	< 0.53 J

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-5(40-51)	RW-5(65-76)	RW-5(97-118)	RW-06(53-64)	RW-06(70-81)	RW-6(98-119)	RW-07(34-45)	RW-7(49-60)	RW-07(80-101)
Sample Name	RW-5(40-51)(041307)	RW-5(65-76)(041207)	RW-5(97-118)	RW-06(53-64) (040207)	RW-06(70-81)(040307)	RW-6(98-119)(040507)	RW-07(34-45)(040307)	RW-7(49-60) (040407)	RW-07(80-101)(040307)
Sample Date	4/13/2007	4/12/2007	4/12/2007	4/2/2007	4/3/2007	4/6/2007	4/3/2007	4/4/2007	4/3/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
Total TIC, Semi-Volatile	22.9 J	10 J	12.9 J	7.9 J	18.2 J	47.2 J	11 J	0	0
<b>SVOC - SIM Method</b>									
Acenaphthene	< 0.018	< 0.021	< 0.018	< 0.019	< 0.018	< 0.019	< 0.018	< 0.017	< 0.018 J
Acenaphthylene	< 0.01	< 0.012	< 0.01	< 0.011	< 0.0098	< 0.01	< 0.0099	< 0.0095	< 0.01 J
Anthracene	< 0.022	< 0.025	< 0.022	< 0.023	< 0.022	< 0.023	< 0.022	< 0.021	< 0.022 J
Benzo(a)anthracene	< 0.0072	< 0.0083	< 0.0072	< 0.0076	< 0.007	< 0.0074	< 0.0071	< 0.0068	< 0.0073 J
Benzo(a)pyrene	< 0.018	< 0.021	< 0.018	< 0.019	< 0.017	< 0.018	< 0.018	< 0.017	< 0.018 J
Benzo(b)fluoranthene	< 0.039 J	< 0.044	< 0.039	< 0.04	< 0.037	< 0.039	< 0.038	< 0.036	< 0.039 J
Benzo(g,h,i)perylene	< 0.019	< 0.022	< 0.019	< 0.02	< 0.018	< 0.019	< 0.019	< 0.018	< 0.019 J
Benzo(k)fluoranthene	< 0.017	< 0.019	< 0.017	< 0.017	< 0.016	< 0.017	< 0.016	< 0.016	< 0.017 J
Chrysene	< 0.018	< 0.02	< 0.018	< 0.019	< 0.017	< 0.018	< 0.017	< 0.017	< 0.018 J
Dibenzo(a,h)anthracene	< 0.017	< 0.02	< 0.017	< 0.018	< 0.017	< 0.018	< 0.017	< 0.016	< 0.018 J
Fluoranthene	< 0.0096	< 0.011	< 0.0096	< 0.01	< 0.0093	< 0.0098	< 0.0094	< 0.009	< 0.0097 J
Fluorene	< 0.021	< 0.025	< 0.021	< 0.022	< 0.021	< 0.022	< 0.021	< 0.02	< 0.022 J
Hexachlorobenzene	< 0.021*	< 0.024*	< 0.021*	< 0.022*	< 0.021*	< 0.022*	< 0.021*	< 0.02	< 0.022* J
Indeno(1,2,3-cd)pyrene	< 0.012	< 0.014	< 0.012	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011	< 0.012 J
Naphthalene	< 0.027	< 0.031	< 0.027	0.986	0.663	0.342	< 0.027	< 0.026	< 0.028 J
Pentachlorophenol	< 0.32* J	< 0.37*	< 0.32*	< 0.33*	< 0.31*	< 0.33*	< 0.31*	< 0.3	< 0.32* J
Phenanthrene	< 0.022	< 0.026	< 0.022	< 0.023	< 0.022	< 0.023	< 0.022	< 0.021	< 0.023 J
Pyrene	< 0.015	< 0.017	< 0.015	< 0.016	< 0.014	< 0.015	< 0.015	< 0.014	< 0.015 J

Footnotes on Page 25.

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-7(103-119)		SC1		Field Blanks									
	RW-7(103-119) (040407)	4/4/2007	SC1(041107)	4/11/2007	FB040207	FIELD BLANK 070402	FB-040307	FIELD BLANK 070403	FB(040407)	FIELD BLANK 070404	FIELD BLANK 070405	FB(040507)	FB(040607)	FIELD BLANK 070406
Sample Name														
Sample Date					4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Validation Status		Final		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>SVOC</b>														
1,1'-Biphenyl	< 0.33		< 0.35		< 0.37	< 0.36	< 0.34	< 0.33	< 0.33	< 0.33	< 0.33	< 0.52	< 0.37	< 0.33
2,4,5-Trichlorophenol	< 1.9		< 2.1		< 2.2	< 2.1	< 2	< 1.9	< 1.9	< 1.9	< 1.9	< 3.1	< 2.2	< 1.9
2,4,6-Trichlorophenol	< 1.3		< 1.4		< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 2	< 1.4	< 1.3
2,4-Dichlorophenol	< 1.6		< 1.7		< 1.8	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 2.5	< 1.8	< 1.6
2,4-Dimethylphenol	< 1.6		< 1.8		< 1.9	< 1.8	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 2.6	< 1.8	< 1.6
2,4-Dinitrophenol	< 0.89		< 0.96		< 1	< 0.97	< 0.93	< 0.89	< 0.89	< 0.89	< 0.89	< 1.4	< 1	< 0.89
2,4-Dinitrotoluene	< 0.86		< 0.92		< 0.98	< 0.93	< 0.9	< 0.86	< 0.86	< 0.86	< 0.86	< 1.4	< 0.97	< 0.86
2,6-Dinitrotoluene	< 0.56		< 0.6		< 0.64	< 0.61	< 0.58	< 0.56	< 0.56	< 0.56	< 0.56	< 0.89	< 0.63	< 0.56
2-Chloronaphthalene	< 0.98		< 1.1		< 1.1	< 1.1	< 1	< 0.98	< 0.98	< 0.98	< 0.98	< 1.6	< 1.1	< 0.98
2-Chlorophenol	< 0.95		< 1		< 1.1	< 1	< 0.99	< 0.95	< 0.95	< 0.95	< 0.95	< 1.5	< 1.1	< 0.95
2-Methylnaphthalene	< 0.41		0.56 J		< 0.46	< 0.44	< 0.43	< 0.41	< 0.41	< 0.41	< 0.41 J	< 0.65	< 0.46	< 0.41
2-Methylphenol	< 1.4		< 1.5		< 1.5	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 2.2	< 1.5	< 1.4
2-Nitroaniline	< 0.66		< 0.71		< 0.75	< 0.72	< 0.69	< 0.66	< 0.66	< 0.66	< 0.66	< 1.1	< 0.74	< 0.66
2-Nitrophenol	< 1.8		< 1.9		< 2.1	< 2	< 1.9	< 1.8	< 1.8	< 1.8	< 1.8	< 2.9	< 2	< 1.8
3&4-Methylphenol	< 1.3		< 1.4		< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 2	< 1.4	< 1.3
3,3'-Dichlorobenzidine	< 1.2		< 1.3		< 1.4	< 1.3	< 1.3	< 1.2	< 1.2 J	< 1.2	< 1.2	< 1.9	< 1.4	< 1.2
3-Nitroaniline	< 1.3		< 1.4		< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 2	< 1.4	< 1.3
4,6-Dinitro-2-methylphenol	< 0.72		< 0.78		< 0.82	< 0.78	< 0.75	< 0.72	< 0.72	< 0.72	< 0.72	< 1.1	< 0.81	< 0.72
4-Bromophenyl phenyl ether	< 0.3		< 0.32		< 0.34	< 0.33	< 0.31	< 0.3	< 0.3	< 0.3	< 0.3	< 0.47	< 0.34	< 0.3
4-Chloro-3-Methylphenol	< 1.2		< 1.3		< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.9	< 1.3	< 1.2
4-Chloroaniline	< 0.4		< 0.43		< 0.45 J	< 0.43	< 0.41	< 0.4	< 0.4	< 0.4	< 0.4	< 0.63	< 0.45	< 0.4
4-Chlorophenyl phenyl ether	< 0.43		< 0.46		< 0.49	< 0.47	< 0.45	< 0.43	< 0.43	< 0.43	< 0.43	< 0.68	< 0.48	< 0.43
4-Nitroaniline	< 0.72		< 0.78		< 0.82	< 0.78	< 0.75	< 0.72	< 0.72	< 0.72	< 0.72	< 1.1	< 0.81	< 0.72
4-Nitrophenol	< 0.84		< 0.91		< 0.96	< 0.92	< 0.88	< 0.84	< 0.84	< 0.84	< 0.84	< 1.3	< 0.95	< 0.84
Acetophenone	< 0.37		< 0.4		< 0.42	< 0.41	< 0.39	< 0.37	< 0.37	< 0.37	< 0.37	< 0.59	< 0.42	< 0.37
Atrazine	< 0.16		< 0.18		< 0.19	< 0.18	< 0.17	< 0.16	< 0.16	< 0.16	< 0.16	< 0.26	< 0.18	< 0.16
Benzaldehyde	< 0.27		< 0.28		< 0.3	< 0.29	< 0.28	< 0.27 R	< 0.27 R	< 0.27	< 0.27 J	< 0.42	< 0.3	< 0.27
Benzyl butyl phthalate	< 0.59		< 0.64		< 0.67	< 0.64	< 0.62	< 0.59	< 0.59	< 0.59	< 0.59	< 0.94	< 0.67	< 0.59
bis(2-Chloroethoxy)methane	< 0.65		< 0.7		< 0.74	< 0.71	< 0.68	< 0.65	< 0.65	< 0.65	< 0.65	< 1	< 0.73	< 0.65
bis(2-Chloroethyl)ether	< 0.53		< 0.57		< 0.6	< 0.58	< 0.55	< 0.53	< 0.53	< 0.53	< 0.53	< 0.84	< 0.6	< 0.53
bis(2-Chloroisopropyl)ether	< 0.74		< 0.79		< 0.84 J	< 0.8	< 0.77	< 0.74	< 0.74	< 0.74	< 0.74	< 1.2	< 0.83	< 0.74
bis(2-Ethylhexyl)phthalate	< 0.66	3	< 0.75		< 0.72	< 0.69	< 0.66	< 0.66	< 0.66	< 0.66	1.5 BJ	< 1	< 0.74	< 0.66
Caprolactam	< 0.32		< 0.34		< 0.36	< 0.34	< 0.33	< 0.32	< 0.32	< 0.32	< 0.32	< 0.5	< 0.35	< 0.32
Carbazole	< 0.36		< 0.39		< 0.41	< 0.4	< 0.38	< 0.36	< 0.36	< 0.36	< 0.36	< 0.58	< 0.41	< 0.36
Dibenzofuran	< 0.34		< 0.37		< 0.39	< 0.37	< 0.36	< 0.34	< 0.34	< 0.34	< 0.34	< 0.55	< 0.39	< 0.34
Diethyl phthalate	< 0.39		< 0.42		< 0.44	< 0.42	< 0.41	< 0.39	< 0.39	< 0.39	< 0.39	< 0.62	< 0.44	< 0.39
Dimethyl phthalate	< 0.33		< 0.35		< 0.37	< 0.36	< 0.34	< 0.33	< 0.33	< 0.33	< 0.33	< 0.52	< 0.37	< 0.33
di-n-butyl phthalate	< 0.59		< 0.64		< 0.67	< 0.64	< 0.62	< 0.59	< 0.59	< 0.59	< 0.59	< 0.94	< 0.67	< 0.59
di-n-octylphthalate	< 0.57													

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-7(103-119)		SC1		Field Blanks										
	Sample Name	RW-7(103-119) (040407)	SC1(041107)	4/4/2007	4/11/2007	FB040207	FIELD BLANK 070402	FB-040307	FIELD BLANK 070403	FB(040407)	FIELD BLANK 070404	FIELD BLANK 070405	FB(040507)	FB(040607)	FIELD BLANK 070406
Sample Date			4/2/2007	4/2/2007	Final	Final	4/3/2007	Final	4/3/2007	Final	4/4/2007	Final	4/4/2007	Final	4/5/2007
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Total TIC, Semi-Volatile	0	42.1 J	0	0	0	0	0	0	0	0	0	0	526.4 J	60.1 J	
<b>SVOC - SIM Method</b>															
Acenaphthene	< 0.017	< 0.018	< 0.019	< 0.019	< 0.018	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.019	< 0.019	< 0.017	
Acenaphthylene	< 0.0095	< 0.01	< 0.011	< 0.01	< 0.0099	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.01	< 0.011	< 0.0095	
Anthracene	< 0.021	< 0.022	< 0.024	< 0.023	< 0.022	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.023	< 0.023	< 0.021	
Benzo(a)anthracene	< 0.0068	< 0.0073	< 0.0077	< 0.0074	< 0.0071	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0075	< 0.0076	< 0.0068	
Benzo(a)pyrene	< 0.017	< 0.018	< 0.019	< 0.018	< 0.018	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.019	< 0.019	< 0.017	
Benzo(b)fluoranthene	< 0.036	< 0.039	< 0.041	< 0.039	< 0.038	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.04	< 0.041	< 0.036	
Benzo(g,h,i)perylene	< 0.018	< 0.019	< 0.02	< 0.019	< 0.019	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.02	< 0.02	< 0.018	
Benzo(k)fluoranthene	< 0.016	< 0.017	< 0.018	< 0.017	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.017	< 0.018	< 0.016	
Chrysene	< 0.017	< 0.018	< 0.019	< 0.018	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.018	< 0.019	< 0.017	
Dibenzo(a,h)anthracene	< 0.016	< 0.018	< 0.019	< 0.018	< 0.017	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.018	< 0.018	< 0.016	
Fluoranthene	< 0.009	< 0.0097	< 0.01	< 0.0098	< 0.0094	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.0099	< 0.01	< 0.009	
Fluorene	< 0.02	< 0.022	< 0.023	< 0.022	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.022	< 0.023	< 0.02	
Hexachlorobenzene	< 0.02	< 0.022*	< 0.023*	< 0.022*	< 0.021*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.022*	< 0.022*	< 0.02	
Indeno(1,2,3-cd)pyrene	< 0.011	< 0.012	< 0.013	< 0.012	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012	< 0.011	
Naphthalene	< 0.026	4.52	< 0.029	< 0.028	< 0.027	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.028	1.81	< 0.026	
Pentachlorophenol	< 0.3	< 0.32*	< 0.34*	< 0.33*	< 0.31*	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3 R	< 0.33*	< 0.34*	< 0.3	
Phenanthrene	< 0.021	< 0.023	< 0.024	< 0.023	< 0.022	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.023	< 0.024	< 0.021	
Pyrene	< 0.014	< 0.015	< 0.016	< 0.015	< 0.015	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.015	< 0.016	< 0.014	

Footnotes on Page 30.

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Field Blanks (continued)											
	FB(040907)		FIELD BLANK 070409		FIELD BLANK 070410		FB(041007)		FB(041107)		FB(041207)	
	Sample Name	4/9/2007	Final	4/9/2007	Final	4/10/2007	Final	4/10/2007	Final	4/11/2007	Final	4/12/2007
<b>SVOC</b>												
1,1'-Biphenyl	< 0.39	< 0.34	< 0.33	< 0.35	< 0.33	< 0.42	< 0.33	< 0.33	< 0.33	< 0.36	< 0.33	< 0.36
2,4,5-Trichlorophenol	< 2.3	< 2	< 1.9	< 2.1	< 1.9	< 2.5	< 1.9	< 1.9	< 1.9	< 2.1	< 1.9	< 2.1
2,4,6-Trichlorophenol	< 1.5	< 1.3	< 1.3	< 1.4	< 1.3	< 1.6	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4
2,4-Dichlorophenol	< 1.9	< 1.6	< 1.6	< 1.7	< 1.6	< 2	< 1.6	< 1.6	< 1.6	< 1.7	< 1.6	< 1.7
2,4-Dimethylphenol	< 2	< 1.7	< 1.6	< 1.8	< 1.6	< 2.1	< 1.6	< 1.6	< 1.6	< 1.8	< 1.6	< 1.8
2,4-Dinitrophenol	< 1.1	< 0.94	< 0.89	< 0.96	< 0.89	< 1.2	< 0.89	< 0.89	< 0.89	< 0.97	< 0.89	< 0.97
2,4-Dinitrotoluene	< 1	< 0.91	< 0.86	< 0.92	< 0.86	< 1.1	< 0.86	< 0.86	< 0.86 J	< 0.93	< 0.86	< 0.93
2,6-Dinitrotoluene	< 0.67	< 0.59	< 0.56	< 0.6	< 0.56	< 0.73	< 0.56	< 0.56	< 0.56 J	< 0.61	< 0.56	< 0.61
2-Chloronaphthalene	< 1.2	< 1	< 0.98	< 1.1	< 0.98	< 1.3	< 0.98	< 0.98	< 0.98	< 1.1	< 0.98	< 1.1
2-Chlorophenol	< 1.1	< 1	< 0.95	< 1	< 0.95	< 1.2	< 0.95	< 0.95	< 0.95	< 1	< 0.95	< 1
2-Methylnaphthalene	< 0.49	< 0.43	< 0.41	< 0.44	< 0.41	< 0.53	< 0.41	< 0.41	< 0.41	< 0.44	< 0.41	< 0.44
2-Methylphenol	< 1.6	< 1.4	< 1.4	< 1.5	< 1.4	< 1.8	< 1.4	< 1.4	< 1.4	< 1.5	< 1.4	< 1.5
2-Nitroaniline	< 0.79	< 0.7	< 0.66	< 0.71	< 0.66	< 0.86	< 0.66	< 0.66	< 0.66	< 0.72	< 0.66	< 0.72
2-Nitrophenol	< 2.2	< 1.9	< 1.8	< 1.9	< 1.8	< 2.4	< 1.8	< 1.8 J	< 2	< 1.8	< 2	< 2
3&4-Methylphenol	< 1.5	< 1.3	< 1.3	< 1.4	< 1.3	< 1.6	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4
3,3'-Dichlorobenzidine	< 1.5	< 1.3	< 1.2	< 1.3	< 1.2	< 1.6	< 1.2	< 1.2	< 1.3	< 1.2	< 1.3	< 1.3
3-Nitroaniline	< 1.5	< 1.3	< 1.3	< 1.4	< 1.3	< 1.6	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4
4,6-Dinitro-2-methylphenol	< 0.86	< 0.76	< 0.72	< 0.78	< 0.72	< 0.94	< 0.72	< 0.72	< 0.78	< 0.72	< 0.78	< 0.78
4-Bromophenyl phenyl ether	< 0.36	< 0.31	< 0.3	< 0.32	< 0.3	< 0.39	< 0.3	< 0.3	< 0.3	< 0.33	< 0.3	< 0.33
4-Chloro-3-Methylphenol	< 1.4	< 1.2	< 1.2	< 1.3	< 1.2	< 1.5	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.3
4-Chloroaniline	< 0.47	< 0.42	< 0.4	< 0.43	< 0.4	< 0.52	< 0.4	< 0.4	< 0.4	< 0.43	< 0.4	< 0.43
4-Chlorophenyl phenyl ether	< 0.51	< 0.45	< 0.43	< 0.46	< 0.43	< 0.56	< 0.43	< 0.43	< 0.43	< 0.47	< 0.43	< 0.47
4-Nitroaniline	< 0.86	< 0.76	< 0.72	< 0.78	< 0.72	< 0.94	< 0.72	< 0.72	< 0.72	< 0.78	< 0.72	< 0.78
4-Nitrophenol	< 1	< 0.89	< 0.84	< 0.91	< 0.84	< 1.1	< 0.84	< 0.84	< 0.84	< 0.92	< 0.84	< 0.92
Acetophenone	< 0.45	< 0.39	< 0.37	< 0.4	< 0.37	< 0.49	< 0.37	< 0.37	< 0.37	< 0.41	< 0.37	< 0.41
Atrazine	< 0.19	< 0.17	< 0.16	< 0.18	< 0.16	< 0.21	< 0.16	< 0.16	< 0.16	< 0.18	< 0.16	< 0.18
Benzaldehyde	< 0.32	< 0.28	< 0.27	< 0.28	< 0.27	< 0.34	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.29
Benzyl butyl phthalate	< 0.71	< 0.62	< 0.59	< 0.64	< 0.59	< 0.77	< 0.59	< 0.59	< 0.64	< 0.59	< 0.64	< 0.64
bis(2-Chloroethoxy)methane	< 0.78	< 0.69	< 0.65	< 0.7	< 0.65	< 0.85	< 0.65	< 0.65	< 0.71	< 0.65	< 0.71	< 0.71
bis(2-Chloroethyl)ether	< 0.63	< 0.56	< 0.53	< 0.57	< 0.53	< 0.69	< 0.53	< 0.53	< 0.58	< 0.53	< 0.58	< 0.58
bis(2-Chloroisopropyl)ether	< 0.88	< 0.78	< 0.74	< 0.79	< 0.74	< 0.96	< 0.74	< 0.74	< 0.8	< 0.74	< 0.8	< 0.8
bis(2-Ethylhexyl)phthalate	< 0.79	< 0.7	< 0.66	1.2 J	< 0.66	< 0.86	< 0.66	< 0.66	< 0.72	< 0.66	< 0.66	< 0.72
Caprolactam	< 0.38	< 0.33	< 0.32	< 0.34	< 0.32	< 0.41	< 0.32	< 0.32	< 0.32	< 0.34	< 0.32	< 0.34
Carbazole	< 0.43	< 0.38	< 0.36	< 0.39	< 0.36	< 0.47	< 0.36	< 0.36	< 0.4	< 0.36	< 0.4	< 0.4
Dibenzofuran	< 0.41	< 0.36	< 0.34	< 0.37	< 0.34	< 0.45	< 0.34	< 0.34	< 0.37	< 0.34	< 0.37	< 0.37
Diethyl phthalate	< 0.46	< 0.41	< 0.39	< 0.42	< 0.39	< 0.51	< 0.39	< 0.39	< 0.42	< 0.39	< 0.42	< 0.42
Dimethyl phthalate	< 0.39	< 0.35	< 0.33	< 0.35	< 0.33	< 0.43	< 0.33	< 0.33	< 0.36	< 0.33	< 0.36	< 0.36
di-n-butyl phthalate	< 0.7	< 0.62	< 0.59	< 0.64	< 0.59	< 0.77	< 0.59	< 0.59	< 0.64	< 0.59	< 0.64	< 0.64
di-n-octylphthalate	< 0.68 J	< 0.6	< 0.57	< 0.61	< 0.57	< 0.74	< 0.57	< 0.57	< 0.62	< 0.57	< 0.62	< 0.62
Hexachlorobutadiene	< 0.21	< 0.18	< 0.18	< 0.19	< 0.18	< 0.23	< 0.18	< 0.18	< 0.19	< 0.18	< 0.19	< 0.19 J
Hexachlorocyclopentadiene	< 0.48	< 0.43	< 0.41	< 0.44	< 0.41	< 0.53	< 0.41	< 0.41	< 0.44	< 0.41	< 0.44	< 0.44
Hexachloroethane	< 0.34	< 0.3	< 0.28	< 0.3	< 0.28	< 0.37	< 0.28	< 0.28</				

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Field Blanks (continued)											
	FB(040907)	FIELD BLANK 070409	FIELD BLANK 070410	FB(041007)	FB(041107)	FB(041207)	FIELD BLANK 070412	FIELD BLANK 070413	FIELD BLANK 070416	FIELD BLANK 070417	FIELD BLANK 070418	
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/17/2007	4/18/2007	
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	
Total TIC, Semi-Volatile	0	0	0	0	0	0	0	5.1 J	9.6 J	0	0	
<b>SVOC - SIM Method</b>												
Acenaphthene	< 0.02	< 0.018	< 0.017	< 0.018	< 0.017	< 0.022	< 0.017	< 0.017	< 0.019	< 0.017	< 0.019	
Acenaphthylene	< 0.011	< 0.01	< 0.0095	< 0.01	< 0.0095	< 0.012	< 0.0095	< 0.0095	< 0.01	< 0.0095	< 0.01	
Anthracene	< 0.025	< 0.022	< 0.021	< 0.022	< 0.021	< 0.027	< 0.021	< 0.021	< 0.023	< 0.021	< 0.023	
Benzo(a)anthracene	< 0.0081	< 0.0072	< 0.0068	< 0.0073	< 0.0068	< 0.0088	< 0.0068	< 0.0068	< 0.0074	< 0.0068	< 0.0074	
Benzo(a)pyrene	< 0.02	< 0.018	< 0.017	< 0.018	< 0.017	< 0.022	< 0.017	< 0.017	< 0.018	< 0.017	< 0.018	
Benzo(b)fluoranthene	< 0.043	< 0.038	< 0.036	< 0.039	< 0.036	< 0.047	< 0.036	< 0.036 J	< 0.039	< 0.036	< 0.039	
Benzo(g,h,i)perylene	< 0.021	< 0.019	< 0.018	< 0.019	< 0.018	< 0.023	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019	
Benzo(k)fluoranthene	< 0.019	< 0.017	< 0.016	< 0.017	< 0.016	< 0.02	< 0.016	< 0.016	< 0.017	< 0.016	< 0.017	
Chrysene	< 0.02	< 0.018	< 0.017	< 0.018	< 0.017	< 0.022	< 0.017	< 0.017	< 0.018	< 0.017	< 0.018	
Dibenzo(a,h)anthracene	< 0.02	< 0.017	< 0.016	< 0.018	< 0.016	< 0.021	< 0.016	< 0.016	< 0.018	< 0.016	< 0.018	
Fluoranthene	< 0.011	< 0.0095	< 0.009	< 0.0097	< 0.009	< 0.012	< 0.009	< 0.009	< 0.0098	< 0.009	< 0.0098	
Fluorene	< 0.024	< 0.021	< 0.02	< 0.022	< 0.02	< 0.026	< 0.02	< 0.02	< 0.022	< 0.02	< 0.022	
Hexachlorobenzene	< 0.024*	< 0.021*	< 0.02	< 0.022*	< 0.02	< 0.026*	< 0.02	< 0.02	< 0.022*	< 0.02	< 0.022*	
Indeno(1,2,3-cd)pyrene	< 0.013	< 0.012	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	< 0.012	< 0.011	< 0.012	
Naphthalene	< 0.031	< 0.027	< 0.026	< 0.028	< 0.026	< 0.034	< 0.026	< 0.026	< 0.028	< 0.026	< 0.028	
Pentachlorophenol	< 0.36* R	< 0.32*	< 0.3	< 0.32*	< 0.3	< 0.39*	< 0.3	< 0.3 J	< 0.33*	< 0.3	< 0.33*	
Phenanthrene	< 0.025	< 0.022	< 0.021	< 0.023	< 0.021	< 0.027	< 0.021	< 0.021	< 0.023	< 0.021	< 0.023	
Pyrene	< 0.017	< 0.015	< 0.014	< 0.015	< 0.014	< 0.018	< 0.014	< 0.014	< 0.015	< 0.014	< 0.015	

Footnotes on Page 35.

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks									
	TB040207	TRIP BLANK (J57575)	TB-070402	TRIPBLANK070403	TRIPBLANK(040407)	TRIPBLANK070404	TRIPBLANK(040507)	TRIP BLANK070405	TRIPBLANK(040607)	TRIPBLANK 070406
Sample Name	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>SVOC</b>										
1,1'-Biphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octylphthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks									
	TB040207	TRIP BLANK (J57575)	TB-070402	TRIPBLANK070403	TRIPBLANK(040407)	TRIPBLANK070404	TRIPBLANK(040507)	TRIP BLANK070405	TRIPBLANK(040607)	TRIPBLANK 070406
Sample Name	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Total TIC, Semi-Volatile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>SVOC - SIM Method</b>										
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 40.

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks (continued)									
	TRIPBLANK(040907)	TRIPBLANK070409	TRIPBLANK070410	TRIPBLANK(041007)	TRIPBLANK(041107)	TRIPBLANK(041207)	TRIP BLANK 070412	TRIP BLANK 070413	TRIPBLANK070416	TRIPBLANK 070418
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/18/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>SVOC</b>										
1,1'-Biphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octylphthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks (continued)									
	TRIPBLANK(040907)	TRIPBLANK070409	TRIPBLANK070410	TRIPBLANK(041007)	TRIPBLANK(041107)	TRIPBLANK(041207)	TRIP BLANK 070412	TRIP BLANK 070413	TRIPBLANK070416	TRIPBLANK 070418
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/18/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Total TIC, Semi-Volatile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>SVOC - SIM Method</b>										
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 45.

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 6. Summary of Well Groundwater Analytical Results - PCBs, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-1	OB-2	OB-3	OB-4	OB-5	OB-6	OB7	OB-10	OB-12	OB-13	OB-14A	OB-14B	
Sample Name	GWQS <sup>(1)</sup>	OB-1(040607)	OB-2(040607)	OB-3(040307)	OB-4(040607)	OB-5(040407)	OB-6(040607)	OB7(041107)	OB-10 (040207)	OB-12(040307)	OB-13(040307)	OB-14A(040907)	OB-14B(040907)
Sample Date		4/6/2007	4/6/2007	4/3/2007	4/6/2007	4/4/2007	4/6/2007	4/11/2007	4/2/2007	4/3/2007	4/3/2007	4/9/2007	4/9/2007
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>PCBs</b>													
PCB 1016	0.5	< 0.1	< 0.094	< 0.11	< 0.094	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.11	< 0.1	< 0.12
PCB 1221	0.5	< 0.5	< 0.47	< 0.53	< 0.47	< 0.51	< 0.53	< 0.5	< 0.51	< 0.53	< 0.53	< 0.51	< 0.59
PCB 1232	0.5	< 0.41	< 0.39	< 0.44	< 0.39	< 0.42	< 0.44	< 0.41	< 0.42	< 0.44	< 0.44	< 0.42	< 0.49
PCB 1242	0.5	< 0.17	< 0.16	< 0.18	< 0.16	< 0.18	< 0.19	< 0.17	< 0.18	< 0.18	< 0.18	< 0.18	< 0.21
PCB 1248	0.5	< 0.16	< 0.15	< 0.17	< 0.15	< 0.17	< 0.17	< 0.16	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14
PCB 1260	0.5	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13	< 0.13	< 0.13	< 0.13	< 0.15
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-15B	OB-16	OB-17	OB-18	OB-18 DUP	OB-19	OB-20A	OB20B	OB20B DUP	OB-21
Sample Name	OB-15B(041207)	OB-16(041007)	OB-17(041007)	OB-18(041007)	DUP(041007) (OB-18)	OB-19(040907)	OB-20A(040307)	OB20B(040507)	DUP(040507) (OB20B)(040507)	OB-21(040907)
Sample Date	4/12/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/9/2007	4/3/2007	4/5/2007	4/5/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>PCBs</b>										
PCB 1016	< 0.1	< 0.1 R	< 0.1	< 0.1	< 0.094	< 0.1	< 0.1	< 0.099	< 0.1	< 0.1
PCB 1221	< 0.52	< 0.5 R	< 0.5	< 0.52	< 0.47	< 0.51	< 0.52	< 0.49	< 0.51	< 0.51
PCB 1232	< 0.43	< 0.41 R	< 0.41	< 0.43	< 0.39	< 0.42	< 0.43	< 0.41	< 0.42	< 0.42
PCB 1242	< 0.18	< 0.17 R	< 0.17	< 0.18	< 0.16	< 0.18	< 0.18	< 0.17	< 0.18	< 0.18
PCB 1248	< 0.17	< 0.16 R	< 0.16	< 0.17	< 0.15	< 0.16	< 0.17	< 0.16	< 0.17	< 0.17
PCB 1254	< 0.12	< 0.12 R	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
PCB 1260	< 0.13	< 0.12 R	< 0.12	< 0.13	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13	< 0.13
Total PCBs	0	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-22	OB-23	OB-24	OB-25	RW-1(10-31)	RW-1(58-79)	RW-1(97-118)	RW-1(125-146)	RW-2(19-50)
Sample Name	OB-22(040407)	OB-23(041107)	OB-24(041107)	OB-25(041207)	RW-1(10-31)(041807)	RW-1(58-79)(041807)	RW-1(97-118)(041807)	RW-1(125-146)(041807)	RW-2(19-50)(041007)
Sample Date	4/4/2007	4/11/2007	4/11/2007	4/12/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/10/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>PCBs</b>									
PCB 1016	< 0.1	< 0.094	< 0.12	< 0.1	< 0.11	< 0.098	< 0.094	< 0.11	< 0.099
PCB 1221	< 0.51	< 0.47	< 0.59	< 0.52	< 0.56	< 0.49	< 0.47	< 0.55	< 0.49
PCB 1232	< 0.42	< 0.39	< 0.49	< 0.43	< 0.46	< 0.41	< 0.39	< 0.46	< 0.41
PCB 1242	< 0.18	< 0.16	< 0.21	< 0.18	< 0.2	< 0.17	< 0.16	< 0.19	< 0.17
PCB 1248	< 0.17	< 0.15	< 0.19	< 0.17	< 0.18	< 0.16	< 0.15	< 0.18	< 0.16
PCB 1254	< 0.12	< 0.11	< 0.14	< 0.12	< 0.13	< 0.11	< 0.11	< 0.13	< 0.11
PCB 1260	< 0.13	< 0.12	< 0.15	< 0.13	< 0.14	< 0.12	< 0.12	< 0.14	< 0.12
Total PCBs	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note:

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\*

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**Bold**

1

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B

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NA

NS

R

PCBs

SVOC

VOC

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-2(102-133)	RW-2(161-192)	RW-2(278-309)	RW-2(441-472)	RW-3(62-98)	RW-4(56-77)	RW-4(108-129)	RW-4(328-349)	RW-4(388-409)
Sample Name	RW-2(102-133)(041007)	RW-2(161-192)	RW-2(278-309)(041707)	RW-2(441-472)	RW-3(62-98)(040507)	RW-4(56-77)(040607)	RW-4(108-129)	RW-4(328-349)(040907)	RW-4(388-409)(040907)
Sample Date	4/10/2007	4/16/2007	4/17/2007	4/17/2007	4/5/2007	4/6/2007	4/9/2007	4/9/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>PCBs</b>									
PCB 1016	< 0.094	< 0.094	< 0.094	< 0.094	< 0.1	< 0.1	< 0.1	< 0.1	< 0.099
PCB 1221	< 0.47	< 0.47	< 0.47	< 0.47	< 0.52	< 0.51	< 0.52	< 0.51	< 0.49
PCB 1232	< 0.39	< 0.39	< 0.39	< 0.39	< 0.43	< 0.42	< 0.43	< 0.42	< 0.41
PCB 1242	< 0.16	< 0.16	< 0.16	< 0.16	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17
PCB 1248	< 0.15	< 0.15	< 0.15	< 0.15	< 0.17	< 0.17	< 0.17	< 0.17	< 0.16
PCB 1254	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11
PCB 1260	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13	< 0.13	< 0.13	< 0.13	< 0.12
Total PCBs	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-5(40-51)	RW-5(65-76)	RW-5(97-118)	RW-06(53-64)	RW-06(70-81)	RW-6(98-119)	RW-07(34-45)	RW-7(49-60)	RW-07(80-101)
Sample Name	RW-5(40-51)(041307)	RW-5(65-76)(041207)	RW-5(97-118)	RW-06(53-64) (040207)	RW-06(70-81)(040307)	RW-6(98-119)(040507)	RW-07(34-45)(040307)	RW-7(49-60) (040407)	RW-07(80-101)(040307)
Sample Date	4/13/2007	4/12/2007	4/12/2007	4/2/2007	4/3/2007	4/6/2007	4/3/2007	4/4/2007	4/3/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>PCBs</b>									
PCB 1016	< 0.094	< 0.094	< 0.1	< 0.11	< 0.1	< 0.1	< 0.11	< 0.1 J	< 0.1
PCB 1221	< 0.47	< 0.47	< 0.51	< 0.53	< 0.52	< 0.51	< 0.53	< 0.51 J	< 0.52
PCB 1232	< 0.39	< 0.39	< 0.42	< 0.44	< 0.43	< 0.42	< 0.44	< 0.42 J	< 0.43
PCB 1242	< 0.16	< 0.16	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18 J	< 0.18
PCB 1248	< 0.15	< 0.15	< 0.16	< 0.17	< 0.17	< 0.16	< 0.17	< 0.16 J	< 0.17
PCB 1254	< 0.11	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12 J	< 0.12
PCB 1260	< 0.12	< 0.12	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13 J	< 0.13
Total PCBs	0	0	0	0	0	0	0	0	0

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-7(103-119)		SC1		Field Blanks									
	Sample Name	RW-7(103-119) (040407)	SC1(041107)	FB040207	FIELD BLANK 070402	FB-040307	FIELD BLANK 070403	FB(040407)	FIELD BLANK 070404	FIELD BLANK 070405	FB(040507)	FB(040607)	FIELD BLANK 070406	
Sample Date	4/4/2007	4/11/2007		4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007	
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	
<b>PCBs</b>														
PCB 1016	< 0.094	< 0.1	< 0.1	< 0.094	< 0.1	< 0.094	< 0.094	< 0.1	< 0.094	< 0.11	< 0.094	< 0.094	< 0.094	
PCB 1221	< 0.47	< 0.52	< 0.51	< 0.47	< 0.5	< 0.47	< 0.47	< 0.51	< 0.47	< 0.53	< 0.47	< 0.47	< 0.47	
PCB 1232	< 0.39	< 0.43	< 0.42	< 0.39	< 0.41	< 0.39	< 0.39	< 0.42	< 0.39	< 0.44	< 0.39	< 0.39	< 0.39	
PCB 1242	< 0.16	< 0.18	< 0.18	< 0.16	< 0.17	< 0.16	< 0.16	< 0.18	< 0.16	< 0.18	< 0.16	< 0.16	< 0.16	
PCB 1248	< 0.15	< 0.17	< 0.16	< 0.15	< 0.16	< 0.15	< 0.15	< 0.16	< 0.15	< 0.17	< 0.15	< 0.15	< 0.15	
PCB 1254	< 0.11	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	
PCB 1260	< 0.12	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	
Total PCBs	0	0	0	0	0	0	0	0	0	0	0	0	0	

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Field Blanks (continued)											
	FB(040907)	FIELD BLANK 070409	FIELD BLANK 070410	FB(041007)	FB(041107)	FB(041207)	FIELD BLANK 070412	FIELD BLANK 070413	FIELD BLANK 070416	FIELD BLANK 070417	FIELD BLANK 070418	
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/17/2007	4/18/2007	
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	
Validation Status												
<b>PCBs</b>												
PCB 1016	< 0.11	< 0.099	< 0.096	< 0.1	< 0.094	< 0.11	< 0.094	< 0.1	< 0.094	< 0.1 J	< 0.1	
PCB 1221	< 0.55	< 0.49	< 0.48	< 0.51	< 0.47	< 0.54	< 0.47	< 0.51	< 0.47	< 0.51 J	< 0.52	
PCB 1232	< 0.46	< 0.41	< 0.4	< 0.42	< 0.39	< 0.45	< 0.39	< 0.42	< 0.39	< 0.42 J	< 0.43	
PCB 1242	< 0.19	< 0.17	< 0.17	< 0.18	< 0.16	< 0.19	< 0.16	< 0.18	< 0.16	< 0.18 J	< 0.18	
PCB 1248	< 0.18	< 0.16	< 0.16	< 0.16	< 0.15	< 0.18	< 0.15	< 0.16	< 0.15	< 0.17 J	< 0.17	
PCB 1254	< 0.13	< 0.11	< 0.11	< 0.12	< 0.11	< 0.13	< 0.11	< 0.12	< 0.11	< 0.12 J	< 0.12	
PCB 1260	< 0.14	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.13 J	< 0.13	
Total PCBs	0	0	0	0	0	0	0	0	0	0	0	

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks									
	TB040207	TRIP BLANK (J57575)	TB-070402	TRIPBLANK070403	TRIPBLANK(040407)	TRIPBLANK070404	TRIPBLANK(040507)	TRIP BLANK070405	TRIPBLANK(040607)	TRIPBLANK 070406
Sample Name	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status										
<b>PCBs</b>										
PCB 1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks (continued)									
	TRIPBLANK(040907)	TRIPBLANK070409	TRIPBLANK070410	TRIPBLANK(041007)	TRIPBLANK(041107)	TRIPBLANK(041207)	TRIP BLANK 070412	TRIP BLANK 070413	TRIPBLANK070416	TRIPBLANK 070418
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/18/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>PCBs</b>										
PCB 1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 7. Summary of Well Groundwater Analytical Results - Metals and Inorganics, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well		OB-1	OB-2	OB-3	OB-4	OB-5	OB-6	OB7	OB-10	OB-12	OB-13	OB-14A	OB-14B
Sample Name	GWQS <sup>(1)</sup>	OB-1(040607) 4/6/2007	OB-2(040607) 4/6/2007	OB-3(040307) 4/3/2007	OB-4(040607) 4/6/2007	OB-5(040407) 4/4/2007	OB-6(040607) 4/6/2007	OB7(041107) 4/11/2007	OB-10 (040207) 4/2/2007	OB-12(040307) 4/3/2007	OB-13(040307) 4/3/2007	OB-14A(040907) 4/9/2007	OB-14B(040907) 4/9/2007
Sample Date		Final	Final	Final	Final	Final							
Validation Status													
<b>Metals - Total</b>													
Aluminum	200	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	78.4 B	< 23
Antimony	6	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	3 [8]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	2.4	< 1.5
Barium	2,000	3.2 B	4.7 B	3.1 B	50.4 B	25.2 B	15.8 B	13.7 B	7.4 B	3.3 B	4.9 B	524	51.8 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Footnotes on Page 5.													
<b>Metals - Total (continued)</b>													
Cadmium	4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	NS	7,790	10,200	9,000	52,700	79,900	26,400	70,500	10,200	7,720	6,210	135,000	116,000
Chromium	70	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	0.96 B	< 0.8
Cobalt	NS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	3 B	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	1,300	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
Iron	300	80.3 B	< 25	250	19,400	27,900	910	2,340	1,110	< 25	< 25	45,500	962
Lead	5	< 2.8	3.2	< 2.8	4.1	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	3.3	< 2.8
Magnesium	NS	1780 B	3,620 B	2,830 B	16,300	39,800	6,730	28,800	2,430 B	2,830 B	2,550 B	13,600	32,700
Manganese	50	1.4 B	0.72 B	2 B	2,100	2,020	1,910	1,480	882	1.3 B	< 0.6	1,040 J	2,040 J
Mercury	2	0.088 B	0.077 B	< 0.037 J	0.083 BJ	< 0.037	0.066 BJ	< 0.037	< 0.037	0.038 B	< 0.037	0.081 B	0.084 B
Nickel	100	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Potassium	NS	489 B	1,370 B	755 B	2,810 B	3,670 B	1640 B	3,100 B	715 B	513 B	1,110 B	7,340	3,430 B
Selenium	40	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	40	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	2,680 BJ	3,580 BJ	4,140 BJ	66,800 J	25,900 J	22,900 J	10,400	3,390 BJ	3,740 BJ	4,060 BJ	18,100	25,200
Thallium - Method 6020	2 [10]	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	NS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	3.6 B	< 1.8
Zinc	2,000	< 3.4 J	< 3.4 J	< 3.4 J	< 3.4 J	< 3.4	< 3.4 J	< 3.4	< 3.4	< 3.4 J	< 3.4	< 3.4	< 3.4
<b>Metals - Dissolved</b>													
Aluminum	200	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23
Antimony	6	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	3 [8]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	2,000	3.6 B	4.9 B	3.4 B	49 B	24.8 B	15.3 B	10.6 B	8 B	3.6 B	4.7 B	543	51.2 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	NS	7,320	10,200	9,120	52,200	78,600	25,900	65,200	10,100	8,040	6,330	140,000	116,000
Chromium	70	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Cobalt	NS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	3 B	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	1,300	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
Iron	300	< 25	< 25	96 B	18,000	24,900	708	535	788	< 25	< 25	46,200	894
Lead	5	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	2.9 B	< 2.8
Magnesium	NS	1,690 B	3,700 B	2,860 B	16,100	39,100	6,580	27,800	2,400 B	2,920 B	2,600 B	14,000	32,900
Manganese	50	1.1 B	0.83 B	2.1 B	2,070	1,960	1,870	1,400	866	1.4 B	< 0.6	1,070 J	2,020 J
Mercury	2	0.048 B	0.083 B	0.053 BJ	0.11 BJ	0.041 B	0.09 BJ	< 0.037	< 0.037	< 0.037	< 0.037	0.057 B	0.1 B
Nickel	100	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Potassium	NS	480 B	1,400 B	741 B	2,770 B	3,580 B	1,610 B	2,960 B	711 B	539 B	1,130 B	7,510	3,410 B
Selenium	40	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	40	< 1	< 1	< 1	< 1	1.2 B	< 1	< 1	< 1	< 1	< 1	1.5 B	< 1
Sodium	50,000	2,670 BJ	3,670 BJ	4,040 BJ	65,500 J	26,200 J	22,700 J	9,990 B	3,340 BJ	3,580 BJ	4,230 BJ	19,000	25,000

**Table 7. Summary of Well Groundwater Analytical Results - Metals and Inorganics, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	GWQS <sup>(1)</sup>	OB-1	OB-2	OB-3	OB-4	OB-5	OB-6	OB7	OB-10	OB-12	OB-13	OB-14A	OB-14B
Sample Name		OB-1(040607)	OB-2(040607)	OB-3(040307)	OB-4(040607)	OB-5(040407)	OB-6(040607)	OB7(041107)	OB-10 (040207)	OB-12(040307)	OB-13(040307)	OB-14A(040907)	OB-14B(040907)
Sample Date		4/6/2007	4/6/2007	4/3/2007	4/6/2007	4/4/2007	4/6/2007	4/11/2007	4/2/2007	4/3/2007	4/3/2007	4/9/2007	4/9/2007
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Thallium - Method 6020	2 [10]	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	NS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	3.3 B	< 1.8
Zinc	2,000	7.8 BJ	7.1 BJ	6.2 BJ	11 BJ	6.4 BJ	< 3.4	5.1 B	7.7 BJ	7 BJ	< 3.4	< 3.4	< 3.4

Footnotes on Page 5.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	250,000	20,600	25,200	23,500	121,000	<b>365,000</b>	60,700	<b>307,000</b>	36,100	13,200	18,300	<b>415,000</b>	<b>405,000</b>
Alkalinity, Bicarbonate	250,000	20,600	25,200	23,500	121,000	<b>365,000</b>	60,700	<b>307,000</b>	36,100	13,200	18,300	<b>415,000</b>	<b>405,000</b>
Alkalinity, Carbonate	250,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000
Nitrogen, Nitrate & Nitrite	10,000	< 100	1,300	150	< 100	< 100	460	< 100	< 100	< 100	< 100	130	< 100
Phosphorus, Total	NS	< 50	< 50	< 50	< 50	61	83	< 100	< 50	< 50	< 50	280	59
Cyanide	100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloride	250,000	< 2,000	2,000	< 2,000	185,000	55,700	53,400	6,100	2,700	< 2,000	2,300	16,600	45,000
Nitrate	10,000	< 110	1,300	150	< 110	< 110	460	< 110	< 110	< 110	< 110	130	< 110
Nitrogen, Nitrite	1,000	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10
Sulfate	250,000	< 10,000	17,300	12,800	< 10,000	< 10,000	18,200	10,700	< 10,000	17,500	10,200	< 10,000	14,800

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-15B	OB-16	OB-17	OB-18	OB-18 DUP	OB-19	OB-20A	OB20B	OB20B DUP	OB-21
Sample Name	OB-15B(041207)	OB-16(041007)	OB-17(041007)	OB-18(041007)	DUP(041007) (OB-18)	OB-19(040907)	OB-20A(040307)	OB20B(040507)	DUP(040507) (OB20B)(040507)	OB-21(040907)
Sample Date	4/12/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/9/2007	4/3/2007	4/5/2007	4/5/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>Metals - Total</b>										
Aluminum	<u>231</u>	< 23	< 23	< 23	< 23	39.2 B	<u>981</u>	< 23	50.9 B	<u>38500</u>
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	< 1.5	<u>4.4</u>	< 1.5	< 1.5	< 1.5	< 1.5	<u>24.6</u>	1.5 B	< 1.5	<u>10.4</u>
Barium	14.9 B	79.6 B	10.1 B	7.6 B	6.6 B	84.9 B	120 B	64.4 B	64 B	178 B
Beryllium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	<u>1.6</u>
Footnotes on Page 10.										
<b>Metals - Total (continued)</b>										
Cadmium	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	2.2 B
Calcium	26,300	133,000	71,800	47,900	46,800	13,100	41,400	52,300	51,000	13,700
Chromium	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	2.1 B	< 0.8	< 0.8	49.4
Cobalt	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	6.8 B	23.9 B	23.6 B	31.1 B
Copper	3.2 B	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	132
Iron	194	<u>8,050</u>	<u>1,410</u>	< 25	< 25	<u>18,600</u>	<u>60,100</u>	<u>31,500</u>	<u>31,200</u>	<u>68,100</u>
Lead	< 2.8	< 2.8	3.5	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	<u>29.2</u>
Magnesium	6,590	19600	24,100	9,770	9,520	2,040 B	4,650 B	10,500	10,500	16,900
Manganese	<u>440</u>	<u>2,230</u>	<u>496</u>	1.5 BJ	0.77 BJ	<u>276 J</u>	<u>7,740</u>	<u>8,680</u>	<u>8,520</u>	<u>2840 J</u>
Mercury	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	0.26 B
Nickel	4.7 B	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	3.8 B	3.4 B	3.7 B	68.5 J
Potassium	936 B	8,670	676 B	354 B	310 B	846 B	2,840 B	2,840 B	2,880 B	7,900
Selenium	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	5,050 BJ	21,100 J	11,800 J	6,370 BJ	6,260 BJ	2,840 BJ	4,650 BJ	5,700 B	5,740 B	3,820 BJ
Thallium - Method 6020	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	3.2 B	< 1.8	< 1.8	63
Zinc	6.4 B	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	11.6 B	< 3.4	< 3.4	167
<b>Metals - Dissolved</b>										
Aluminum	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	< 1.5	<u>3.3</u>	< 1.5	< 1.5	< 1.5	< 1.5	<u>20.8</u>	< 1.5	< 1.5	< 1.5
Barium	2.3 B	76.8 B	10.1 B	7.3 B	6.6 B	85.2 B	110 B	61.5 B	62.3 B	3 B
Beryllium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	25,100	135,000	70,400	44,600	45,100	13,300	41,000	49,800	50,600	9,680
Chromium	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Cobalt	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	6.1 B	22.9 B	23.4 B	< 1.8
Copper	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
Iron	< 25	<u>9,140</u>	<u>1,080</u>	< 25	< 25	<u>18,800</u>	<u>58,100</u>	<u>30,100</u>	<u>30,400</u>	< 25
Lead	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	2.9 B	3.6	< 2.8
Magnesium	6,370	20,100	23,700	9,120	9,300	2,060 B	4,390 B	10,200	10,500	3,730 B
Manganese	<u>81.1</u>	<u>2,470</u>	<u>482</u>	< 0.6	< 0.6	<u>282 J</u>	<u>7,520</u>	<u>8,300</u>	<u>8,450</u>	2.3 BJ
Mercury	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	0.048 B	0.094 B
Nickel	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	3.3 B	< 2.8
Potassium	885 B	8,340	669 B	319 B	307 B	837 B	2,600 B	2,830 B	2,900 B	752 B
Selenium	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	5,080 BJ	20,900 J	11,800 J	6,060 BJ	6,250 BJ	2,970 BJ	4,570 BJ	6,210 B	5,890 B	3,780 BJ

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-15B	OB-16	OB-17	OB-18	OB-18 DUP	OB-19	OB-20A	OB20B	OB20B DUP	OB-21
Sample Name	OB-15B(041207)	OB-16(041007)	OB-17(041007)	OB-18(041007)	DUP(041007) (OB-18)	OB-19(040907)	OB-20A(040307)	OB20B(040507)	DUP(040507) (OB20B)(040507)	OB-21(040907)
Sample Date	4/12/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/9/2007	4/3/2007	4/5/2007	4/5/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Thallium - Method 6020	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Zinc	3.8 B	4.8 B	7.5 B	5.7 B	5.7 B	< 3.4	7.6 B	9.2 B	8.9 B	< 3.4

Footnotes on Page 10.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	80,700	<b>445,000</b>	<b>276,000</b>	166,000	164,000	41,800	176,000	223,000	222,000	36,100
Alkalinity, Bicarbonate	79,900	<b>444,000</b>	<b>276,000</b>	165,000	163,000	41,800	176,000	223,000	222,000	36,000
Alkalinity, Carbonate	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000
Nitrogen, Nitrate & Nitrite	< 100	< 100	< 100	< 100	< 100	< 100	< 100	130	< 100	< 100
Phosphorus, Total	220	< 50	< 50	< 50	< 50	130	220	330	390	930
Cyanide	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloride	< 2,000	34,800	5,700	< 2,000	< 2,000	< 2,000	< 2,000	< 2,000	< 2,000	< 2,000
Nitrate	< 110	< 110	< 110	< 110	< 110	< 110	< 110	130	< 110	< 110
Nitrogen, Nitrite	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sulfate	18,500	19,600	38,500	15,000	14,900	< 10,000	< 10,000	< 10,000	< 10,000	10,500

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-22	OB-23	OB-24	OB-25	RW-1(10-31)	RW-1(58-79)	RW-1(97-118)	RW-1(125-146)	RW-2(19-50)
Sample Name	OB-22(040407)	OB-23(041107)	OB-24(041107)	OB-25(041207)	RW-1(10-31)(041807)	RW-1(58-79)(041807)	RW-1(97-118)(041807)	RW-1(125-146)(041807)	RW-2(19-50)(041007)
Sample Date	4/4/2007	4/11/2007	4/11/2007	4/12/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/10/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>Metals - Total</b>									
Aluminum	<b>13200</b>	<b>268</b>	< 23	<b>21200</b>	61.5 B	79 B	34.2 B	< 23	<b>1810</b>
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	<b>5.2</b>	< 1.5	< 1.5	<b>7.1</b>	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	71.8 B	668	34.5 B	1260	5 B	4.2 B	< 2.3	2.6 B	80.4 B
Beryllium	0.74 B	< 0.4	< 0.4	<b>3.7</b>	0.8 B	0.75 B	0.82 B	0.69 B	< 0.4
Footnotes on Page 15.									
<b>Metals - Total (continued)</b>									
Cadmium	< 1.3	1.5 B	< 1.3	<b>29.8</b>	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	34,500	148,000	97,200	149,000	2,860 B	4,470 B	30,500	29,100	77,800
Chromium	18.9	< 0.8	< 0.8	8.2 B	< 0.8	1.1 B	< 0.8	0.83 B	6 B
Cobalt	8.8 B	1.8 B	< 1.8	53.3	< 1.8	< 1.8	< 1.8	< 1.8	1.8 B
Copper	35.3	24.7 B	< 2.7	1,070	12.1 B	4.9 BJ	< 2.7	4.5 BJ	31.2
Iron	<b>19,900</b>	<b>14,100</b>	129	<b>2,280</b>	42.5 B	152	< 25	< 25	<b>4,580</b>
Lead	<b>9.1</b>	<b>24.1</b>	< 2.8	<b>594</b>	3.8	3.1	< 2.8	< 2.8	4.1
Magnesium	13,600	17,100	25,700	18,900	1,170 B	1,310 B	4,570 B	4,320 B	28,600
Manganese	<b>805</b>	<b>1,650</b>	<b>343</b>	<b>8,270</b>	19.4	28	2.5 BJ	15.7	<b>843</b>
Mercury	< 0.037	0.06 B	< 0.037	<b>2.1</b>	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
Nickel	20.4 B	6.3 B	< 2.8	48.2	< 2.8	3.2 B	< 2.8	< 2.8	9.4 B
Potassium	3,480 B	15,900	2,410 B	14,100	249 BJ	313 B	796 B	787 B	2,990 B
Selenium	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.3 B	< 1
Sodium	8,390 BJ	<b>170,000</b>	14,200	29,800	1,820 BJ	1,980 BJ	6,110 BJ	5,910 BJ	<b>124,000</b>
Thallium - Method 6020	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	21.5 B	< 1.8	< 1.8	25.1 B	< 1.8	< 1.8	< 1.8	< 1.8	10.5 B
Zinc	56.9	155	< 3.4	862	227	344	87.3 J	130 J	602
<b>Metals - Dissolved</b>									
Aluminum	< 23	< 23	< 23	25.3 B	< 23	38.5 B	< 23	< 23	< 23
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	4.7 B	381	34.7 B	9.9 B	5.2 B	3.9 B	2.4 B	3.5 B	79 B
Beryllium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	32,700	144,000	96,100	32,300	2,580 B	3,860 B	28,400	27,900	80,400
Chromium	< 0.8	1.3 B	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Cobalt	< 1.8	2.2 B	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	8.8 B
Iron	< 25	<b>329</b>	< 25	43.4 B	< 25	< 25	< 25	< 25	205
Lead	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Magnesium	10,600	17,000	25,500	8,200	1,000 B	1,040 B	4,180 B	4,170 B	28,100
Manganese	<b>484</b>	<b>1,530</b>	<b>335</b>	<b>247</b>	10.4 B	5 B	0.99 B	11.6 B	<b>816</b>
Mercury	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
Nickel	2.8 B	6.8 B	< 2.8	3.5 B	< 2.8	< 2.8	< 2.8	< 2.8	5.2 B
Potassium	937 B	14,300	2,420 B	2,980 B	312 B	373 B	856 B	881 B	2,680 B
Selenium	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	8,480 BJ	<b>153,000 J</b>	14,300	32,300 J	< 830	< 830	5,930 BJ	6,100 BJ	<b>130,000</b>

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	OB-22	OB-23	OB-24	OB-25	RW-1(10-31)	RW-1(58-79)	RW-1(97-118)	RW-1(125-146)	RW-2(19-50)
Sample Name	OB-22(040407)	OB-23(041107)	OB-24(041107)	OB-25(041207)	RW-1(10-31)(041807)	RW-1(58-79)(041807)	RW-1(97-118)(041807)	RW-1(125-146)(041807)	RW-2(19-50)(041007)
Sample Date	4/4/2007	4/11/2007	4/11/2007	4/12/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/10/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
Thallium - Method 6020	0.11 B	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Zinc	< 3.4	77.6	< 3.4	7.8 B	192	289	74.2 J	71.1 J	610

Footnotes on Page 15.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	95,600	<b>725,000</b>	233,000	117,000	< 5,000	9,700	76,100	70,400	89,300
Alkalinity, Bicarbonate	95,600	<b>724,000</b>	232,000	117,000	< 5,000	9,700	75,500	70,200	89,200
Alkalinity, Carbonate	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000
Nitrogen, Nitrate & Nitrite	190	1,500	990	880	< 100	< 100	< 100	< 100	5,700
Phosphorus, Total	730	2,000	< 50	21,400	< 50	< 50	< 50	< 50	< 50
Cyanide	< 10	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloride	15,200	46,000	86,200	50,700	< 2,000	< 2,000	3,100	2,900	<b>318,000</b>
Nitrate	190	1,300	990	880	< 110	< 110	< 110	< 110	5,700
Nitrogen, Nitrite	< 10	160	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sulfate	37,800	14,400	32,100	45,400	< 10,000	< 10,000	22,800	23,700	23,800

Results are presented in microgram per liter (ug/L).

Note:

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**Bold**

<sup>1</sup>

B

B

J

NA

NS

R

PCBs

SVOC

VOC

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-2(102-133)	RW-2(161-192)	RW-2(278-309)	RW-2(441-472)	RW-3(62-98)	RW-4(56-77)	RW-4(108-129)	RW-4(328-349)	RW-4(388-409)
Sample Name	RW-2(102-133)(041007)	RW-2(161-192)	RW-2(278-309)(041707)	RW-2(441-472)	RW-3(62-98)(040507)	RW-4(56-77)(040607)	RW-4(108-129)	RW-4(328-349)(040907)	RW-4(388-409)(040907)
Sample Date	4/10/2007	4/16/2007	4/17/2007	4/17/2007	4/5/2007	4/6/2007	4/9/2007	4/9/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>Metals - Total</b>									
Aluminum	<b>2290</b>	<b>1530</b>	<b>451</b>	<b>757</b>	< 23	<b>628</b>	< 23	< 23	< 23
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	107 B	120 B	84.5 B	97.5 B	37.1 B	15.9 B	14.5 B	8.9 B	8.2 B
Beryllium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Footnotes on Page 20.									
<b>Metals - Total (continued)</b>									
Cadmium	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	118,000	97,900	95,200	113,000	48,000	9,960	12,700	10,100	10,200
Chromium	8.6 B	2 B	3 B	1.9 B	< 0.8	3.6 B	< 0.8	< 0.8	< 0.8
Cobalt	8.8 B	8.1 B	3.9 B	4.4 B	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	49.1	71.6	34.3	54.1	< 2.7	9 B	< 2.7	< 2.7	< 2.7
Iron	<b>7,880</b>	<b>4,690</b>	<b>1,740</b>	<b>2,170</b>	240	<b>12,400</b>	<b>487</b>	<b>1,350</b>	<b>651</b>
Lead	<b>11.2</b>	<b>14</b>	<b>5.9</b>	< 2.8	3	5	< 2.8	< 2.8	3 B
Magnesium	40,800	33700	28,400	33,800	13,200	4,150 B	4,980 B	3,990 B	4,050 B
Manganese	<b>2,590</b>	<b>3,290</b>	<b>1,350</b>	<b>1,150</b>	<b>101</b>	<b>55.9</b>	3.1 B	6.4 B	3.3 B
Mercury	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
Nickel	15.3 B	16.4 B	9.4 B	8.3 B	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Potassium	3,580 B	3100 B	2,640 B	2,970 B	1,890 B	1,270 B	1,290 B	1,150 B	1,150 B
Selenium	8.8 B	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	2 B	< 1	1.8 B	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	<b>159,000</b>	<b>135,000</b>	<b>117,000 J</b>	<b>142,000 J</b>	6,930 BJ	6,180 B	5,850 BJ	5,710 BJ	5,730 BJ
Thallium - Method 6020	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	14.8 B	4 B	2.8 B	3.9 B	< 1.8	2.4 B	< 1.8	< 1.8	< 1.8
Zinc	747 J	<b>11,300</b>	<b>2,600</b>	<b>2,400</b>	139	294	230	823	952
<b>Metals - Dissolved</b>									
Aluminum	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	75.9 B	99.5 B	55.4 B	67 B	38 B	10 B	13.9 B	8.8 B	8 B
Beryllium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	110,000	90900	96,200	113,000	46,600	9,940	12,700	9,900	10,200
Chromium	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Cobalt	< 1.8	< 1.8	1.8 B	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Copper	7.5 B	< 2.7	4.1 B	4 B	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
Iron	216	179	55.4 B	< 25	25.3 B	62.1 B	< 25	< 25	< 25
Lead	< 2.8	< 2.8	<b>5.2</b>	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Magnesium	35,200	27000	27,900	32,500	13,700	4,060 B	4,900 B	3,960 B	4,050 B
Manganese	<b>298</b>	<b>463</b>	<b>311</b>	<b>201</b>	<b>103</b>	24.9	2.3 B	3 B	1.7 B
Mercury	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
Nickel	4.8 B	< 2.8	3.9 B	4.7 B	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Potassium	3,060 B	2730 B	2,700 B	2,950 B	1,940 B	1,190 B	1,260 B	1,150 B	1,160 B
Selenium	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	< 1	< 1	1 B	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	<b>152,000</b>	<b>118,000</b>	<b>124,000 J</b>	<b>142,000 J</b>	7,110 BJ	6,380 B	5,810 BJ	5,670 BJ	5,820 BJ

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-2(102-133)	RW-2(161-192)	RW-2(278-309)	RW-2(441-472)	RW-3(62-98)	RW-4(56-77)	RW-4(108-129)	RW-4(328-349)	RW-4(388-409)
Sample Name	RW-2(102-133)(041007)	RW-2(161-192)	RW-2(278-309)(041707)	RW-2(441-472)	RW-3(62-98)(040507)	RW-4(56-77)(040607)	RW-4(108-129)	RW-4(328-349)(040907)	RW-4(388-409)(040907)
Sample Date	4/10/2007	4/16/2007	4/17/2007	4/17/2007	4/5/2007	4/6/2007	4/9/2007	4/9/2007	4/9/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
Thallium - Method 6020	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Zinc	1,310 J	<b>2,070</b>	<b>2,780</b>	<b>2,390</b>	135	391	228	791	934

Footnotes on Page 20.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	124,000	156,000	127,000	141,000	159,000	38,400	50,400	41,200	41,800
Alkalinity, Bicarbonate	124,000	156,000	126,000	141,000	158,000	38,300	50,200	41,100	41,700
Alkalinity, Carbonate	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000
Nitrogen, Nitrate & Nitrite	5,300	4,200	5,000	5,400	750	< 100	280 J	< 100 J	< 100 J
Phosphorus, Total	< 50	120	< 50	68	< 50	< 50	< 50	< 50	120
Cyanide	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloride	<b>418,000</b>	<b>302,000 J</b>	<b>319,000 J</b>	<b>412,000 J</b>	21,100	< 2,000	< 2,000	< 2,000	< 2,000
Nitrate	5,300	4,100	4,900	5,400	750	< 110	280	< 110	< 110
Nitrogen, Nitrite	< 10	82 J	56	28	< 10	< 10 J	< 10	< 10	< 10
Sulfate	24,300	23,000	22,000	22,600	13,900	14,600	17,700	15,100	15,400

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-5(40-51)	RW-5(65-76)	RW-5(97-118)	RW-06(53-64)	RW-06(70-81)	RW-6(98-119)	RW-07(34-45)	RW-7(49-60)	RW-07(80-101)
Sample Name	RW-5(40-51)(041307)	RW-5(65-76)(041207)	RW-5(97-118)	RW-06(53-64) (040207)	RW-06(70-81)(040307)	RW-6(98-119)(040507)	RW-07(34-45)(040307)	RW-7(49-60) (040407)	RW-07(80-101)(040307)
Sample Date	4/13/2007	4/12/2007	4/12/2007	4/2/2007	4/3/2007	4/6/2007	4/3/2007	4/4/2007	4/3/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>Metals - Total</b>									
Aluminum	<u>250</u>	44.5 B	50.5 B	62.6 B	< 23	83.4 B	<u>368</u>	69.6 B	< 23
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	< 1.5	< 1.5	< 1.5	1.7 B	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	35 B	18.9 B	22.6 B	225	123 B	427	4.6 B	2.4 B	2.5 B
Beryllium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Footnotes on Page 25.									
<b>Metals - Total (continued)</b>									
Cadmium	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	70,500	68,900	78,900	67,600	77,700	68,000	11,100	11,400	11,900
Chromium	4.6 B	4.3 B	2.1 B	5.4 B	< 0.8	3.3 B	< 0.8	< 0.8	< 0.8
Cobalt	2.5 B	< 1.8	3.5 B	56.3	31.3 B	10.6 B	< 1.8	< 1.8	< 1.8
Copper	65.6	13.3 B	44.9	3.1 B	254	12.8 BJ	6.4 BJ	< 2.7	< 2.7
Iron	<u>21,400</u>	<u>12,200</u>	<u>1,980</u>	<u>44,100</u>	<u>16,000</u>	<u>39,200</u>	<u>3,150</u>	<u>489</u>	<u>490</u>
Lead	<u>44.3</u>	<u>13.9</u>	<u>7</u>	<u>4.5</u>	<u>32.3 J</u>	<u>4.6</u>	<u>&lt; 2.8</u>	<u>&lt; 2.8</u>	<u>&lt; 2.8</u>
Magnesium	16,300	16,500	20,100	16,000	19,800	13,700	4,310 B	4,400 B	4,140 B
Manganese	<u>3,970</u>	<u>3,550</u>	<u>5,340</u>	<u>11,700</u>	<u>11,300</u>	<u>6,620</u>	<u>63.9</u>	<u>8 B</u>	<u>7.6 B</u>
Mercury	< 0.037	< 0.037	0.051 B	0.054 B	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
Nickel	12.6 B	9.6 B	10.4 B	19.3 B	7.9 B	10.8 B	< 2.8	< 2.8	< 2.8
Potassium	2160 B	2,060 B	2,200 B	2,950 B	2,570 B	2,900 B	950 B	917 B	834 B
Selenium	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	8.5 B	< 6.2	< 6.2	< 6.2
Silver	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	6,220 BJ	6,860 BJ	7,630 BJ	7,110 BJ	8,690 BJ	7,350 B	4,200 BJ	4,290 BJ	4,320 BJ
Thallium - Method 6020	< 0.09	< 0.09	0.38 B	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	3 B	< 1.8	< 1.8	< 1.8	< 1.8	2.5 B	< 1.8	< 1.8	< 1.8
Zinc	<u>10,800</u>	<u>3,380</u>	<u>2,180</u>	<u>540</u>	<u>996</u>	<u>6,280</u>	<u>119</u>	<u>189 J</u>	<u>256</u>
<b>Metals - Dissolved</b>									
Aluminum	< 23	NA	< 23	42.7 B	< 23	< 23	< 23	< 23	< 23
Antimony	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Arsenic - Method 6020	< 0.94	NA	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Barium	14.9 B	NA	21.1 B	220	120 B	416	2.6 B	< 2.3	2.3 B
Beryllium	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	< 1.3	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Calcium	55,900	NA	79,400	66,900	77,700	67,300	11,400	11,100	11,900
Chromium	0.85 B	NA	1.7 B	< 0.8	< 0.8	1.1 B	< 0.8	< 0.8	< 0.8
Cobalt	< 1.8	NA	4.4 B	56.1	31.9 B	9.5 B	< 1.8	< 1.8	< 1.8
Copper	< 2.7	NA	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
Iron	< 25	NA	<u>950</u>	<u>42,800</u>	<u>15,200</u>	<u>36,800</u>	<u>55.5 B</u>	<u>&lt; 25</u>	<u>&lt; 25</u>
Lead	< 2.8	NA	4.6	2.9 B	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8
Magnesium	13,400	NA	20,300	15,900	19,900	13,700	4,360 B	4,300 B	4,160 B
Manganese	<u>2,920</u>	NA	<u>5,330</u>	<u>11,700</u>	<u>11,300</u>	<u>6,460</u>	<u>8.2 B</u>	<u>3.4 B</u>	<u>4.1 B</u>
Mercury	< 0.037	NA	0.051 B	< 0.037	0.042 B	< 0.037	< 0.037	< 0.037	< 0.037
Nickel	5.2 B	NA	8 B	9.4 B	6.1 B	9 B	< 2.8	< 2.8	< 2.8
Potassium	1,890 B	NA	2,120 B	2,930 B	2,600 B	2,860 B	907 B	893 B	834 B
Selenium	< 6.2	NA	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2
Silver	< 1	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	6,690 BJ	NA	8,140 BJ	7,170 BJ	8,750 BJ	7,540 B	4,450 BJ	4,200 BJ	4,340 BJ

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-5(40-51)	RW-5(65-76)	RW-5(97-118)	RW-06(53-64)	RW-06(70-81)	RW-6(98-119)	RW-07(34-45)	RW-7(49-60)	RW-07(80-101)
Sample Name	RW-5(40-51)(041307)	RW-5(65-76)(041207)	RW-5(97-118)	RW-06(53-64) (040207)	RW-06(70-81)(040307)	RW-6(98-119)(040507)	RW-07(34-45)(040307)	RW-7(49-60) (040407)	RW-07(80-101)(040307)
Sample Date	4/13/2007	4/12/2007	4/12/2007	4/2/2007	4/3/2007	4/6/2007	4/3/2007	4/4/2007	4/3/2007
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final
Thallium - Method 6020	< 0.48	NA	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Vanadium	< 1.8	NA	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Zinc	665	NA	1,680	505	704	<b>5,620</b>	113	181 J	259

Footnotes on Page 25.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	232,000	NA	<b>302,000</b>	<b>305,000</b>	<b>339,000</b>	248,000	42,900	42,900	44,100
Alkalinity, Bicarbonate	230,000	NA	<b>301,000</b>	<b>305,000</b>	<b>339,000</b>	248,000	42,900	42,900	44,000
Alkalinity, Carbonate	< 5,000	NA	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000	< 5,000
Nitrogen, Nitrate & Nitrite	< 100 J	NA	< 100	< 100 J	< 100	< 100	< 100	< 100	< 100
Phosphorus, Total	110	NA	< 50	54	< 50	< 50	< 50	< 50	< 50
Cyanide	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloride	2,400	NA	2,400	2,500	3,300	6,000	< 2,000	< 2,000	< 2,000
Nitrate	< 110	NA	< 110	< 110 J	< 110	< 110	< 110	< 110	< 110
Nitrogen, Nitrite	< 10	NA	< 10	< 10 J	< 10	< 10 J	< 10	< 10	< 10
Sulfate	< 10,000	NA	< 10,000	< 10,000	< 10,000	< 10,000	< 10,000	11,800	11,900

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-7(103-119)		SC1		Field Blanks									
	RW-7(103-119) (040407)	4/4/2007	SC1(041107)	4/11/2007	FB040207	FIELD BLANK 070402	FB-040307	FIELD BLANK 070403	FB(040407)	FIELD BLANK 070404	FIELD BLANK 070405	FB(040507)	FB(040607)	FIELD BLANK 070406
Sample Name					4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Sample Date		Final		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status		Final		Final										Final
<b>Metals - Total</b>														
Aluminum	< 23		63.5 B		31.9 B		41.1 B		58.5 B		34.2 B		< 23	
Antimony	< 5		< 5		< 5		< 5		< 5		< 5		< 5	
Arsenic - Method 6020	< 1.5		< 1.5		< 1.5		< 1.5		< 1.5		< 1.5		< 1.5	
Barium	3.6 B		291		< 2.3		< 2.3		< 2.3		< 2.3		< 2.3	
Beryllium	< 0.4		< 0.4		< 0.4		< 0.4		< 0.4		< 0.4		< 0.4	
Footnotes on Page 30.														
<b>Metals - Total (continued)</b>														
Cadmium	< 1.3		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3		2.1 B	
Calcium	14,400		27,400		< 49		336 B		< 49		< 49		316 B	
Chromium	< 0.8		2.8 B		< 0.8		< 0.8		< 0.8		< 0.8		1.1 B	
Cobalt	< 1.8		< 1.8		< 1.8		< 1.8		< 1.8		< 1.8		< 1.8	
Copper	< 2.7		< 2.7		< 2.7		16.1 B		< 2.7		< 2.7		< 2.7	
Iron	213		<b>39,800</b>		< 25		< 25		< 25		< 25		< 25	
Lead	< 2.8		<b>6.3</b>		< 2.8		<b>8.3</b>		< 2.8		< 2.8		< 2.8	
Magnesium	4,980 B		2,850 B		< 14		33 B		< 14		< 14		23.4 B	
Manganese	4.3 B		<b>411</b>		2.9 B		3.4 B		< 0.6		< 0.6		0.98 B	
Mercury	< 0.037		< 0.037		0.04 B		0.044 B		< 0.037		< 0.037		< 0.037	
Nickel	< 2.8		6.4 B		< 2.8		< 2.8		< 2.8		8.8 B		< 2.8	
Potassium	1,070 B		2,220 B		< 55		< 55		< 55		55.5 B		< 55	
Selenium	< 6.2		< 6.2		< 6.2		< 6.2		< 6.2		< 6.2		< 6.2	
Silver	< 1		< 1		< 1		< 1		< 1		< 1		< 1	
Sodium	4,270 BJ		3,750 B		< 830		1,170 B		939 BJ		< 830 J		< 830 J	
Thallium - Method 6020	< 0.09		< 0.09		< 0.09		< 0.09		< 0.09		< 0.09		< 0.09	
Vanadium	< 1.8		< 1.8		< 1.8		< 1.8		< 1.8		< 1.8		< 1.8	
Zinc	273		110		< 3.4		22.4		4 B		12.1 B		3.6 B	
<b>Metals - Dissolved</b>														
Aluminum	< 23		25.4 B		NA		NA		NA		NA		NA	
Antimony	< 5		< 5		NA		NA		NA		NA		NA	
Arsenic - Method 6020	< 1.5		< 1.5		NA		NA		NA		NA		NA	
Barium	2.5 B		283		NA		NA		NA		NA		NA	
Beryllium	< 0.4		< 0.4		NA		NA		NA		NA		NA	
Cadmium	< 1.3		< 1.3		NA		NA		NA		NA		NA	
Calcium	14,300		27,500		NA		NA		NA		NA		NA	
Chromium	< 0.8		1.7 B		NA		NA		NA		NA		NA	
Cobalt	< 1.8		< 1.8		NA		NA		NA		NA		NA	
Copper	< 2.7		< 2.7		NA		NA		NA		NA		NA	
Iron	35 B		<b>38,400</b>		NA		NA		NA		NA		NA	
Lead	< 2.8		< 2.8		NA		NA		NA		NA		NA	
Magnesium	4,930 B		2,800 B		NA		NA		NA		NA		NA	
Manganese	2.8 B		<b>410</b>		NA		NA		NA		NA		NA	
Mercury	< 0.037		< 0.037		NA		NA		NA		NA		NA	
Nickel	< 2.8		5.9 B		NA		NA		NA		NA		NA	
Potassium	1,090 B		2,160 B		NA		NA		NA		NA		NA	
Selenium	< 6.2		< 6.2		NA		NA		NA		NA		NA	
Silver	< 1		< 1		NA		NA		NA		NA		NA	
Sodium	4,470 BJ		3,710 B		NA		NA		NA		NA		NA	

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	RW-7(103-119)		SC1		Field Blanks									
	Sample Name	RW-7(103-119) (040407)	SC1(041107)	FB040207	FIELD BLANK 070402	FB-040307	FIELD BLANK 070403	FB(040407)	FIELD BLANK 070404	FIELD BLANK 070405	FB(040507)	FB(040607)	FIELD BLANK 070406	
Sample Date	4/4/2007	4/11/2007	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007	4/6/2007	
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	
Thallium - Method 6020	< 0.09	< 0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	< 1.8	< 1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	267	< 3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Footnotes on Page 30.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	51,000	89,900	NA	NA	< 5,000	< 5,000	NA						
Alkalinity, Bicarbonate	50,900	89,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Carbonate	< 5,000	< 5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate & Nitrite	< 100	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus, Total	< 50	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloride	< 2,000	< 2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	< 110	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	< 10	< 10	NA	NA	NA	NA	NA	< 10	< 10	NA	NA	NA	NA
Sulfate	14,000	< 10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Field Blanks (continued)											
	FB(040907)	FIELD BLANK 070409	FIELD BLANK 070410	FB(041007)	FB(041107)	FB(041207)	FIELD BLANK 070412	FIELD BLANK 070413	FIELD BLANK 070416	FIELD BLANK 070417	FIELD BLANK 070418	
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/17/2007	4/18/2007	
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	
Validation Status												
<b>Metals - Total</b>												
Aluminum	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Arsenic - Method 6020	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	0.96 B	< 1.5	
Barium	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	
Beryllium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.52 B	< 0.4	
Footnotes on Page 35.												
<b>Metals - Total (continued)</b>												
Cadmium	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	
Calcium	< 49	88.7 B	145 B	< 49	< 49	49.2 B	< 49	< 49	< 49	< 49	< 49	
Chromium	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
Cobalt	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	
Copper	2.9 B	< 2.7	4.4 B	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	6.6 B	< 2.7	< 2.7	
Iron	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	
Lead	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	5.1	< 2.8	< 2.8	
Magnesium	< 14	< 14	16.2 B	< 14	< 14	< 14	< 14	< 14	< 14	< 14	< 14	
Manganese	< 0.6 J	< 0.6	0.65 B	< 0.6	< 0.6	2 B	< 0.6	2.1 B	< 0.6	< 0.6	< 0.6	
Mercury	0.074 B	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	0.12 B	< 0.037	< 0.037	< 0.037	< 0.037	
Nickel	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	
Potassium	< 55	< 55	< 55	< 55	< 55	< 55	< 55	< 55	< 55	< 55	< 55	
Selenium	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	
Silver	< 1	< 1	< 1	< 1	< 1	< 1	1 B	< 1	< 1	< 1	< 1	
Sodium	< 830	833 BJ	947 B	< 830 J	1,070 B	1,060 B	< 830 J	< 830 J	1,100 B	< 830 J	1,110 B	
Thallium - Method 6020	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	
Vanadium	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	
Zinc	5.2 B	3.7 B	4.8 B	< 3.4	7.6 B	< 3.4	4.9 B	9.1 B	10.2 B	11.2 B	16.1 B	
<b>Metals - Dissolved</b>												
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Field Blanks (continued)											
	FB(040907)	FIELD BLANK 070409	FIELD BLANK 070410	FB(041007)	FB(041107)	FB(041207)	FIELD BLANK 070412	FIELD BLANK 070413	FIELD BLANK 070416	FIELD BLANK 070417	FIELD BLANK 070418	
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/17/2007	4/18/2007	
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	
Thallium - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Footnotes on Page 35.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Bicarbonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Carbonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate & Nitrite	NA	NA	NA	< 100	NA						
Phosphorus, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	NA	NA	NA	< 110	NA						
Nitrogen, Nitrite	NA	NA	NA	< 10	< 10	< 10	NA	NA	NA	NA	NA
Sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks									
	TB040207	TRIP BLANK (J57575)	TB-070402	TRIPBLANK070403	TRIPBLANK(040407)	TRIPBLANK070404	TRIPBLANK(040507)	TRIP BLANK070405	TRIPBLANK(040607)	TRIPBLANK 070406
Sample Name	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>Metals - Total</b>										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Footnotes on Page 40.										
<b>Metals - Total (continued)</b>										
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Metals - Dissolved</b>										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks									
	TB040207	TRIP BLANK (J57575)	TB-070402	TRIPBLANK070403	TRIPBLANK(040407)	TRIPBLANK070404	TRIPBLANK(040507)	TRIP BLANK070405	TRIPBLANK(040607)	TRIPBLANK 070406
Sample Name	4/2/2007	4/2/2007	4/3/2007	4/3/2007	4/4/2007	4/4/2007	4/5/2007	4/5/2007	4/6/2007	4/6/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Thallium - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 40.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	NA									
Alkalinity, Bicarbonate	NA									
Alkalinity, Carbonate	NA									
Nitrogen, Nitrate & Nitrite	NA									
Phosphorus, Total	NA									
Cyanide	NA									
Chloride	NA									
Nitrate	NA									
Nitrogen, Nitrite	NA									
Sulfate	NA									

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks (continued)									
	TRIPBLANK(040907)	TRIPBLANK070409	TRIPBLANK070410	TRIPBLANK(041007)	TRIPBLANK(041107)	TRIPBLANK(041207)	TRIP BLANK 070412	TRIP BLANK 070413	TRIPBLANK070416	TRIPBLANK 070418
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/18/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
<b>Metals - Total</b>										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Footnotes on Page 45.										
<b>Metals - Total (continued)</b>										
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Metals - Dissolved</b>										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table 1. Summary of Well Groundwater Analytical Results, April 2007, Ringwood Mines/Landfill Site, Ringwood, New Jersey.**

Well	Trip Blanks (continued)									
	TRIPBLANK(040907)	TRIPBLANK070409	TRIPBLANK070410	TRIPBLANK(041007)	TRIPBLANK(041107)	TRIPBLANK(041207)	TRIP BLANK 070412	TRIP BLANK 070413	TRIPBLANK070416	TRIPBLANK 070418
Sample Name	4/9/2007	4/9/2007	4/10/2007	4/10/2007	4/11/2007	4/12/2007	4/12/2007	4/13/2007	4/16/2007	4/18/2007
Sample Date	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Validation Status	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Thallium - Method 6020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 45.

**Other**

Alkalinity, total (as CaCO <sub>3</sub> )	NA									
Alkalinity, Bicarbonate	NA									
Alkalinity, Carbonate	NA									
Nitrogen, Nitrate & Nitrite	NA									
Phosphorus, Total	NA									
Cyanide	NA									
Chloride	NA									
Nitrate	NA									
Nitrogen, Nitrite	NA									
Sulfate	NA									

Results are presented in microgram per liter (ug/L).

Note: Due to low volume yields not enough sample was available for analysis of dissolved metals and other parameters in sample RW-5(65-76).

< Not detected.

\* Detection limit is above the 2005 GWQS standard.

\*\* Detection limit also above the 2004 GWQS standard.

**Bold** Value is above the Ground Water Quality Standard

<sup>1</sup> Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C.) 7:9-6, current 2005 and interim criteria select 2004 criteria are presented in [ ].

B Organic: analyte was detected in one or more of the associated blanks.

B Inorganic: estimated result is between the detection limit and quantification limit.

J Estimated result.

NA Not analyzed.

NS No standard.

R Rejected result.

PCBs Polychlorinated biphenyls.

SVOC Semi-volatile organic compound.

VOC Volatile organic compound.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-01			
			OB-1(080284) 8/2/1984	OB-1(110104) 11/1/2004	OB-1 (123004) 12/30/2004	OB-1 9/26/2006
<b>VOC</b>						
Benzene	1		< 10	< 1	< 0.31	< 0.21
Ethylbenzene	700		< 10	< 1	< 0.27	< 0.2
Toluene	1000		< 10	< 1	< 0.14	< 0.2
Xylene, -m			NA	NA	NA	NA
Xylene, -m,p			NA	< 1	< 0.36	< 0.42
Xylene, -o			NA	< 1	< 0.17	< 0.31
Xylenes	1,000		NA	< 1	< 0.17	< 0.31
<b>PCBs</b>						
PCB 1016	0.5		< 0.5	< 0.5	< 0.075	< 0.094
PCB 1221	0.5		< 0.5	< 0.5	< 0.085	< 0.47
PCB 1232	0.5		< 0.5	< 0.5	< 0.12	< 0.39
PCB 1242	0.5		< 0.5	< 0.5	< 0.13	< 0.16
PCB 1248	0.5		< 0.5	< 0.5	< 0.072	< 0.15
PCB 1254	0.5		< 0.5	< 0.5	< 0.072	< 0.11
PCB 1260	0.5		< 0.5	< 0.5	< 0.1	< 0.12
Total PCBs			0	0	0	0
<b>Metals -Total</b>						
Arsenic	3		< 5	< 5	< 5	< 1.5 J
Iron	300		<b>1100</b>	< 100	<b>869</b>	155
Lead	5		< 50	< 3	< 3	< 2.6
Manganese	50		<b>120</b>	< 15	< 15	2.9 BJ
<b>Metals -Dissolved</b>						
Arsenic	3		NA	< 5	< 5	1.8 BJ
Iron	300		NA	< 100	< 100	< 67
Lead	5		NA	< 3	< 3	< 2.6
Manganese	50		NA	< 15	< 15	3.7 BJ

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-02			
			OB-2(080284) 8/2/1984	OB2(061686) 6/16/1986	OB-2 (10/13/04) 10/13/2004	OB-2 10/2/2006
<b>VOC</b>						
Benzene	1		< 10	< 10	< 0.5	< 0.21
Ethylbenzene	700		< 10	< 10	< 0.5	< 0.2
Toluene	1000		< 10	< 10	< 0.5	< 0.2
Xylene, -m			NA	NA	NA	NA
Xylene, -m,p			NA	NA	NA	< 0.42
Xylene, -o			NA	NA	NA	< 0.31
Xylenes	1,000		NA	NA	< 1	< 0.31
<b>PCBs</b>						
PCB 1016	0.5		< 0.5	NA	< 0.075 J	< 0.094
PCB 1221	0.5		< 0.5	NA	< 0.085	< 0.47
PCB 1232	0.5		< 0.5	NA	< 0.12	< 0.39
PCB 1242	0.5		< 0.5	NA	< 0.13	< 0.16
PCB 1248	0.5		< 0.5	NA	< 0.072	< 0.15
PCB 1254	0.5		< 0.5	NA	< 0.072	< 0.11
PCB 1260	0.5		< 0.5	NA	< 0.1	< 0.12
Total PCBs			0	NA	0	0
<b>Metals -Total</b>						
Arsenic	3		< 5	< 2	< 5	< 1.5
Iron	300		<b>4600</b>	NA	156	95.8 B
Lead	5		< 50	< 50	< 3	< 2.6
Manganese	50		<b>440</b>	NA	< 15	1.5 B
<b>Metals -Dissolved</b>						
Arsenic	3		NA	NA	< 5	2
Iron	300		NA	NA	< 100	67.3 B
Lead	5		NA	NA	< 3	< 2.6
Manganese	50		NA	NA	< 15	1.5 B

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-03							
			OB-3(080284) 8/2/1984	OB3(061686) 6/16/1986	OB-3(103089) 10/30/1989	OB-3(013090) 1/30/1990	OB-3(042490) 4/24/1990	OB-3(072490) 7/24/1990	OB-3 (10/13/04) 10/13/2004	OB-3 9/28/2006
<b>VOC</b>										
Benzene	1		< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.21
Ethylbenzene	700		< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2
Toluene	1000		< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2
Xylene, -m			NA	NA	< 2	< 2	< 2	< 2	NA	NA
Xylene, -m,p			NA	NA	NA	NA	NA	NA	NA	< 0.42
Xylene, -o			NA	NA	< 2	< 2	< 2	< 2	NA	< 0.31
Xylenes	1,000		NA	NA	NA	NA	NA	NA	< 1	< 0.31
<b>PCBs</b>										
PCB 1016	0.5		< 0.5	NA	NA	NA	NA	NA	< 0.075	< 0.098
PCB 1221	0.5		< 0.5	NA	NA	NA	NA	NA	< 0.085	< 0.49
PCB 1232	0.5		< 0.5	NA	NA	NA	NA	NA	< 0.12	< 0.41
PCB 1242	0.5		< 0.5	NA	NA	NA	NA	NA	< 0.13	< 0.17
PCB 1248	0.5		< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.16
PCB 1254	0.5		< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.11
PCB 1260	0.5		< 0.5	NA	NA	NA	NA	NA	< 0.1 J	< 0.12
Total PCBs			0	NA	NA	NA	NA	NA	0	0
<b>Metals -Total</b>										
Arsenic	3		< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 1.5
Iron	300		<u>9300</u>	NA	<u>35600 JMt</u>	<u>750</u>	<u>124000</u>	<u>17000</u>	<u>2000</u>	<u>1540</u>
Lead	5		< 50	< 50	< 5	< 5	< 5	< 5	< 3	< 2.6
Manganese	50		<u>140</u>	NA	<u>117</u>	< 10	<u>58</u>	<u>69</u>	16	8.3 B
<b>Metals -Dissolved</b>										
Arsenic	3		NA	NA	NA	NA	NA	NA	< 5	< 1.5
Iron	300		NA	NA	NA	NA	NA	NA	< 100	81.1 B
Lead	5		NA	NA	NA	NA	NA	NA	< 3	< 2.6
Manganese	50		NA	NA	NA	NA	NA	NA	< 15	3.8 BJ

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

DRAFT

Table 8. Historical Well Sampling Results  
Ringwood Mines/Landfill Site  
Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

**Well**

**Sample Name**                   **GWQS1**

**Sample Date**

**VOC**

Benzene	1
Ethylbenzene	700
Toluene	1000
Xylene, -m	
Xylene, -m,p	
Xylene, -o	
Xylenes	1,000

**PCBs**

PCB 1016	0.5
PCB 1221	0.5
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Total PCBs	

**Metals -Total**

Arsenic	3
Iron	300
Lead	5
Manganese	50

**Metals -Dissolved**

Arsenic	3
Iron	300
Lead	5
Manganese	50

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-04				
			OB-4(080284) 8/2/1984	OB4(061686) 6/16/1986	OB4(061686)-1 6/16/1986	OB-4 (10/14/04) 10/14/2004	OB-4 9/29/2006
<b>VOC</b>							
Benzene	1		< 10	< 10	< 10	< 0.5	< 0.21
Ethylbenzene	700		< 10	< 10	< 10	< 0.5	< 0.2
Toluene	1000		< 10	< 10	< 10	< 0.5	< 0.2
Xylene, -m			NA	NA	NA	NA	NA
Xylene, -m,p			NA	NA	NA	NA	< 0.42
Xylene, -o			NA	NA	NA	NA	< 0.31
Xylenes	1,000		NA	NA	NA	< 1	< 0.31
<b>PCBs</b>							
PCB 1016	0.5		< 0.5	NA	NA	< 0.084	< 0.1
PCB 1221	0.5		< 0.5	NA	NA	< 0.094	< 0.52
PCB 1232	0.5		< 0.5	NA	NA	< 0.14	< 0.43
PCB 1242	0.5		< 0.5	NA	NA	< 0.15	< 0.18
PCB 1248	0.5		< 0.5	NA	NA	< 0.08	< 0.17
PCB 1254	0.5		< 0.5	NA	NA	< 0.08	< 0.12
PCB 1260	0.5		< 0.5	NA	NA	< 0.11	< 0.13
Total PCBs			0	NA	NA	0	0
<b>Metals -Total</b>							
Arsenic	3		< 5	< 2	NA	< 5	< 1.5
Iron	300		<b>33000</b>	NA	NA	<b>7070</b>	<b>8480</b>
Lead	5		< 50	< 50	NA	< 3	< 2.6
Manganese	50		<b>4100</b>	NA	NA	<b>2720 J</b>	<b>2390</b>
<b>Metals -Dissolved</b>							
Arsenic	3		NA	NA	NA	< 5	< 1.5
Iron	300		NA	NA	NA	<b>6080</b>	<b>6380</b>
Lead	5		NA	NA	NA	< 3	< 2.6
Manganese	50		NA	NA	NA	<b>2720 J</b>	<b>2370</b>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-05						
			OB-5(080284) 8/2/1984	OB5(080684) 8/6/1984	OB5(010186) 1/1/1986	OB5(060186) 6/1/1986	OB5(061386) 6/13/1986	OB-5 (10/15/04) 10/15/2004	OB-5 10/2/2006
<b>VOC</b>									
Benzene	1		< 10	< 10	< 10	< 10	NA	< 0.5	< 0.21
Ethylbenzene	700		< 10	< 10	< 10	< 10	NA	< 0.5	< 0.2
Toluene	1000		< 10	< 10	< 10	< 10	NA	< 0.5	< 0.2
Xylene, -m			NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p			NA	NA	NA	NA	NA	NA	< 0.42
Xylene, -o			NA	NA	NA	NA	NA	NA	< 0.31
Xylenes	1,000		NA	NA	NA	NA	NA	< 1	< 0.31
<b>PCBs</b>									
PCB 1016	0.5		< 0.5	NA	NA	NA	NA	< 0.075	< 0.099
PCB 1221	0.5		< 0.5	NA	NA	NA	NA	< 0.085	< 0.49
PCB 1232	0.5		< 0.5	NA	NA	NA	NA	< 0.12	< 0.41
PCB 1242	0.5		< 0.5	NA	NA	NA	NA	< 0.13	< 0.17
PCB 1248	0.5		< 0.5	NA	NA	NA	NA	< 0.072	< 0.16
PCB 1254	0.5		< 0.5	NA	NA	NA	NA	< 0.072	< 0.11
PCB 1260	0.5		< 0.5	NA	NA	NA	NA	< 0.1	< 0.12
Total PCBs			0	NA	NA	NA	NA	0	0
<b>Metals -Total</b>									
Arsenic	3		< 5	NA	NA	NA	< 2	< 5	< 1.5
Iron	300		<b>31000</b>	NA	NA	NA	NA	<b>20500</b>	<b>24600</b>
Lead	5		< 50	NA	NA	NA	< 50	< 3	< 2.6
Manganese	50		<b>1100</b>	NA	NA	NA	NA	<b>1490</b>	<b>2970</b>
<b>Metals -Dissolved</b>									
Arsenic	3		NA	NA	NA	NA	NA	< 5	< 1.5
Iron	300		NA	NA	NA	NA	NA	<b>17100</b>	<b>20700</b>
Lead	5		NA	NA	NA	NA	NA	< 3	2.6 B
Manganese	50		NA	NA	NA	NA	NA	<b>1520</b>	<b>2730</b>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-06				
			OB-6(080284) 8/2/1984	OB9(080284)-2 8/2/1984	OB-6 (11/2/04) 11/2/2004	OB-6 (123004) 12/30/2004	OB-6 9/26/2006
<b>VOC</b>							
Benzene	1		< 10	NA	< 0.31	< 0.31	< 0.21
Ethylbenzene	700		< 10	NA	< 0.27	< 0.27	< 0.2
Toluene	1000		< 10	NA	< 0.14	< 0.14	< 0.2
Xylene, -m			NA	NA	NA	NA	NA
Xylene, -m,p			NA	NA	< 0.36	< 0.36	< 0.42
Xylene, -o			NA	NA	< 0.17	< 0.17	< 0.31
Xylenes	1,000		NA	NA	< 0.17	< 0.17	< 0.31
<b>PCBs</b>							
PCB 1016	0.5		< 0.5	NA	< 0.075	< 0.075	< 0.1
PCB 1221	0.5		< 0.5	NA	< 0.085	< 0.085	< 0.52
PCB 1232	0.5		< 0.5	NA	< 0.12	< 0.12	< 0.43
PCB 1242	0.5		< 0.5	NA	< 0.13	< 0.13	< 0.18
PCB 1248	0.5		< 0.5	NA	< 0.072	< 0.072	< 0.17
PCB 1254	0.5		< 0.5	NA	< 0.072	< 0.072	< 0.12
PCB 1260	0.5		< 0.5	NA	< 0.1	< 0.1	< 0.13
Total PCBs			0	NA	0	0	0
<b>Metals -Total</b>							
Arsenic	3		< 5	< 5	< 5	< 5	< 1.5
Iron	300		<b>3700</b>	<b>4100</b>	<b>30900</b>	<b>2290</b>	<b>4180</b>
Lead	5		< 50	NA	< 3	< 3	< 2.6
Manganese	50		<b>90</b>	<b>90</b>	<b>2040</b>	<b>1770</b>	<b>2480</b>
<b>Metals -Dissolved</b>							
Arsenic	3		NA	NA	< 5	< 5	< 1.5
Iron	300		NA	NA	<b>24900</b>	<b>2180</b>	<b>3190</b>
Lead	5		NA	NA	< 3	< 3	< 2.6
Manganese	50		NA	NA	<b>2010</b>	<b>1780</b>	<b>2420</b>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-07					
			OB-7(080284) 8/2/1984	OB7(080684) 8/6/1984	OB7(060186) 6/1/1986	OB7(061486) 6/14/1986	OB-7 (101304) 10/13/2004	OB-7 9/28/2006
<b>VOC</b>								
Benzene	1		< 10	< 10	< 10	NA	< 0.5	< 0.21
Ethylbenzene	700		< 10	< 10	< 10	NA	< 0.5	< 0.2
Toluene	1000		< 10	< 10	< 10	NA	< 0.5	< 0.2
Xylene, -m			NA	NA	NA	NA	NA	NA
Xylene, -m,p			NA	NA	NA	NA	NA	< 0.42
Xylene, -o			NA	NA	NA	NA	NA	< 0.31
Xylenes	1,000		NA	NA	NA	NA	< 1	< 0.31
<b>PCBs</b>								
PCB 1016	0.5		< 0.5	NA	NA	NA	< 0.075 J	< 0.1
PCB 1221	0.5		< 0.5	NA	NA	NA	< 0.085	< 0.51
PCB 1232	0.5		< 0.5	NA	NA	NA	< 0.12	< 0.42
PCB 1242	0.5		< 0.5	NA	NA	NA	< 0.13	< 0.18
PCB 1248	0.5		< 0.5	NA	NA	NA	< 0.072	< 0.17
PCB 1254	0.5		< 0.5	NA	NA	NA	< 0.072	< 0.12
PCB 1260	0.5		< 0.5	NA	NA	NA	< 0.1	< 0.13
Total PCBs			0	NA	NA	NA	0	0
<b>Metals -Total</b>								
Arsenic	3		< 5	NA	NA	< 2	< 5	< 1.5
Iron	300		<b>7000</b>	NA	NA	NA	<b>1360</b>	<b>2640</b>
Lead	5		< 50	NA	NA	< 50	< 3	< 2.6
Manganese	50		<b>420</b>	NA	NA	NA	<b>3150</b>	<b>2710</b>
<b>Metals -Dissolved</b>								
Arsenic	3		NA	NA	NA	NA	< 5	< 1.5
Iron	300		NA	NA	NA	NA	270	<b>1680</b>
Lead	5		NA	NA	NA	NA	< 3	< 2.6
Manganese	50		NA	NA	NA	NA	<b>3140</b>	<b>2700</b>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	GWQS1	OB-08	
		OB-8(080284)	OB8(080684)
Sample Name	Sample Date	8/2/1984	8/6/1984
<b>VOC</b>			
Benzene	1	< 10	< 10
Ethylbenzene	700	< 10	< 10
Toluene	1000	< 10	< 10
Xylene, -m		NA	NA
Xylene, -m,p		NA	NA
Xylene, -o		NA	NA
Xylenes	1,000	NA	NA
<b>PCBs</b>			
PCB 1016	0.5	< 0.5	NA
PCB 1221	0.5	< 0.5	NA
PCB 1232	0.5	< 0.5	NA
PCB 1242	0.5	< 0.5	NA
PCB 1248	0.5	< 0.5	NA
PCB 1254	0.5	< 0.5	NA
PCB 1260	0.5	< 0.5	NA
Total PCBs		0	NA
<b>Metals -Total</b>			
Arsenic	3	< 5	NA
Iron	300	<b>13000</b>	NA
Lead	5	< 50	NA
Manganese	50	<b>1900</b>	NA
<b>Metals -Dissolved</b>			
Arsenic	3	NA	NA
Iron	300	NA	NA
Lead	5	NA	NA
Manganese	50	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-09						
			OB9(080184) 8/1/1984	OB-9(080284) 8/2/1984	OB9(060186) 6/1/1986	OB9(061486) 6/14/1986	OB9(032288) 3/22/1988	OB9F(032288) 3/22/1988	OB9(032388) 3/23/1988
<b>VOC</b>									
Benzene	1		< 10	< 10	< 10	NA	NA	NA	< 5
Ethylbenzene	700		< 10	< 10	< 10	NA	NA	NA	< 5
Toluene	1000		< 10	< 10	19	NA	NA	NA	< 5
Xylene, -m			NA	NA	NA	NA	NA	NA	< 5
Xylene, -m,p			NA	NA	NA	NA	NA	NA	NA
Xylene, -o			NA	NA	NA	NA	NA	NA	< 5
Xylenes	1,000		NA	NA	NA	NA	NA	NA	NA
<b>PCBs</b>									
PCB 1016	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1221	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1232	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1242	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1248	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1254	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1260	0.5		NA	< 1	NA	NA	NA	NA	NA
Total PCBs			NA	0	NA	NA	NA	NA	NA
<b>Metals -Total</b>									
Arsenic	3		NA	<u>7</u>	NA	<u>10.6</u>	< 2	< 2	NA
Iron	300		NA	<u>450</u>	NA	NA	NA	NA	NA
Lead	5		NA	< 50	NA	< 50	< 50	< 50	NA
Manganese	50		NA	<u>320</u>	NA	NA	NA	NA	NA
<b>Metals -Dissolved</b>									
Arsenic	3		NA	NA	NA	NA	NA	NA	NA
Iron	300		NA	NA	NA	NA	NA	NA	NA
Lead	5		NA	NA	NA	NA	NA	NA	NA
Manganese	50		NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-10					
			OB10(080184) 8/1/1984	OB-10(080284) 8/2/1984	OB-10(103189) 10/31/1989	OB-10(013090) 1/30/1990	OB-10(042490) 4/24/1990	OB-10(072390) 7/23/1990
<b>VOC</b>								
Benzene	1		< 10	< 10	< 2	< 2	< 2	< 2
Ethylbenzene	700		< 10	< 10	< 2	< 2	< 2	< 0.5
Toluene	1000		< 10	< 10	< 2	< 2	< 2	< 0.5
Xylene, -m			NA	NA	< 2	< 2	< 2	NA
Xylene, -m,p			NA	NA	NA	NA	NA	NA
Xylene, -o			NA	NA	< 2	< 2	< 2	NA
Xylenes	1,000		NA	NA	NA	NA	NA	< 1
<b>PCBs</b>								
PCB 1016	0.5		NA	< 0.5	NA	NA	NA	< 0.075
PCB 1221	0.5		NA	< 0.5	NA	NA	NA	< 0.085
PCB 1232	0.5		NA	< 0.5	NA	NA	NA	< 0.12
PCB 1242	0.5		NA	< 0.5	NA	NA	NA	< 0.13
PCB 1248	0.5		NA	< 0.5	NA	NA	NA	< 0.072
PCB 1254	0.5		NA	< 0.5	NA	NA	NA	< 0.072
PCB 1260	0.5		NA	< 0.5	NA	NA	NA	< 0.1
Total PCBs			NA	0	NA	NA	NA	0
<b>Metals -Total</b>								
Arsenic	3		NA	<u>31</u>	< 2	<u>4.61</u>	< 5	< 5
Iron	300		NA	<u>9500</u>	<u>4560</u>	<u>7240</u>	<u>2200</u>	<u>14200</u>
Lead	5		NA	< 50	< 5	< 5	< 5	< 3
Manganese	50		NA	<u>5400</u>	<u>174</u>	<u>392</u>	<u>82</u>	<u>93</u>
<b>Metals -Dissolved</b>								
Arsenic	3		NA	NA	NA	NA	NA	< 5
Iron	300		NA	NA	NA	NA	NA	< 100
Lead	5		NA	NA	NA	NA	NA	< 3
Manganese	50		NA	NA	NA	NA	NA	< 15

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

<b>Well</b>	<b>GWQS1</b>	<b>OB-10</b>
<b>Sample Name</b>		
<b>Sample Date</b>		
		<b>10/2/2006</b>
<b>VOC</b>		
Benzene	1	< 0.21
Ethylbenzene	700	< 0.2
Toluene	1000	< 0.2
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.1
PCB 1221	0.5	< 0.5
PCB 1232	0.5	< 0.41
PCB 1242	0.5	< 0.17
PCB 1248	0.5	< 0.16
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.12
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	< 1.5
Iron	300	<b>4010</b>
Lead	5	< 2.6
Manganese	50	<b>1600</b>
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5
Iron	300	<b>3700</b>
Lead	5	< 2.6
Manganese	50	<b>1570</b>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-11						
			OB11(080184) 8/1/1984	OB-11(092084) 9/20/1984	OB11(060186) 6/1/1986	OB11B(060186) 6/1/1986	OB11(061486) 6/14/1986	OB11(032288) 3/22/1988	OB-11(103189) 10/31/1989
<b>VOC</b>									
Benzene	1		< 10	< 10	< 10	< 10	NA	<u>2 J</u>	< 2
Ethylbenzene	700		< 10	< 10	< 10	< 10	NA	0.2 J	2.7
Toluene	1000		< 10	< 10	< 10	< 10	NA	< 5	< 2
Xylene, -m			NA	NA	NA	NA	NA	< 5	< 2
Xylene, -m,p			NA	NA	NA	NA	NA	NA	NA
Xylene, -o			NA	NA	NA	NA	NA	4 J	< 2
Xylenes	1,000		NA	NA	NA	NA	NA	NA	NA
<b>PCBs</b>									
PCB 1016	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1221	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1232	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1242	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1248	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1254	0.5		NA	< 1	NA	NA	NA	NA	NA
PCB 1260	0.5		NA	< 1	NA	NA	NA	NA	NA
Total PCBs			NA	0	NA	NA	NA	NA	NA
<b>Metals -Total</b>									
Arsenic	3		NA	<u>6</u>	NA	NA	< 2	NA	< 2
Iron	300		NA	<u>20000</u>	NA	NA	NA	NA	<u>19900</u>
Lead	5		NA	<u>60</u>	NA	NA	< 50	NA	< 5
Manganese	50		NA	<u>2900</u>	NA	NA	NA	NA	<u>1680</u>
<b>Metals -Dissolved</b>									
Arsenic	3		NA	NA	NA	NA	NA	NA	NA
Iron	300		NA	NA	NA	NA	NA	NA	NA
Lead	5		NA	NA	NA	NA	NA	NA	NA
Manganese	50		NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-11						
			OB-11(013090) 1/30/1990	OB-11(042490) 4/24/1990	OB-11(072390) 7/23/1990	OB11(011492) 1/14/1992	OB11(011692) 1/16/1992	OB-11(072992) 7/29/1992	OB011(073092) 7/30/1992
<b>VOC</b>									
Benzene	1		< 2	< 2	< 2	<u>2</u>	NA	<u>3</u>	<u>3</u>
Ethylbenzene	700		< 2	< 2	< 2	< 5	NA	4 J	< 4
Toluene	1000		< 2	< 2	< 2	< 5	NA	2 J	2 J
Xylene, -m			< 2	< 2	< 2	NA	NA	NA	NA
Xylene, -m,p			NA	NA	NA	1 J	NA	9	9
Xylene, -o			< 2	< 2	< 2	2 J	NA	7	7
Xylenes	1,000		NA	NA	NA	NA	NA	NA	NA
<b>PCBs</b>									
PCB 1016	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5		NA	NA	NA	NA	NA	NA	NA
Total PCBs			NA	NA	NA	NA	NA	NA	NA
<b>Metals -Total</b>									
Arsenic	3		< 2	< 5	< 5	NA	2.6R	<u>3.6 BR</u>	<u>3.6 BN</u>
Iron	300		<u>1160</u>	<u>4090</u>	<u>22300</u>	NA	<u>24300</u>	<u>38200</u>	<u>38200 E</u>
Lead	5		< 5	< 5	18.8	NA	< 20.8	< 24.4	< 24.4
Manganese	50		<u>1040</u>	<u>438</u>	<u>1440</u>	NA	<u>1610</u>	<u>1150</u>	<u>1150</u>
<b>Metals -Dissolved</b>									
Arsenic	3		NA	NA	NA	NA	NA	NA	NA
Iron	300		NA	NA	NA	NA	NA	NA	NA
Lead	5		NA	NA	NA	NA	NA	NA	NA
Manganese	50		NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-11						
			OB-11(073092) 7/30/1992	OB-11(021793) 2/17/1993	OB-11(072693) 7/26/1993	OB11(022095) 2/20/1995	OB11(022195) 2/21/1995	OB11(080795) 8/7/1995	OB-11 (8/16/1999) 8/16/1999
<b>VOC</b>									
Benzene	1		<u>3</u>	< 1	< 1	NA	< 1	< 1	NA
Ethylbenzene	700		4 J	< 5	< 5	NA	< 10	< 10	NA
Toluene	1000		2 J	< 5	< 5	NA	< 10	< 10	NA
Xylene, -m			NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p			9	< 5	< 5	NA	< 10	< 10	NA
Xylene, -o			7	< 5	< 5	NA	< 10	< 10	NA
Xylenes	1,000		NA	NA	NA	NA	NA	NA	NA
<b>PCBs</b>									
PCB 1016	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5		NA	NA	NA	NA	NA	NA	NA
Total PCBs			NA	NA	NA	NA	NA	NA	NA
<b>Metals -Total</b>									
Arsenic	3		NA	3 B	<u>8.3 B</u>	< 2	NA	<u>4.4 B</u>	NA
Iron	300		NA	<u>12900</u>	<u>21900</u>	<u>11700</u>	NA	<u>23400</u>	NA
Lead	5		NA	1.8 B	<u>14</u>	< 2	NA	<u>31.9</u>	< 1.7
Manganese	50		NA	<u>1080</u>	<u>2440</u>	<u>1060</u>	NA	<u>1300</u>	NA
<b>Metals -Dissolved</b>									
Arsenic	3		NA	NA	NA	NA	NA	NA	NA
Iron	300		NA	NA	NA	NA	NA	NA	NA
Lead	5		NA	NA	NA	NA	NA	NA	NA
Manganese	50		NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

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Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

Well	GWQS1	OB-11		
		OB-11 (4/13/2000)	OB-11(10/14/04)	
Sample Name	Sample Date	4/13/2000	10/14/2004	
<b>VOC</b>				
Benzene	1	NA	<u>1.2</u>	
Ethylbenzene	700	NA	< 0.5	
Toluene	1000	NA	< 0.5	
Xylene, -m		NA	NA	
Xylene, -m,p		NA	NA	
Xylene, -o		NA	NA	
Xylenes	1,000	NA	< 1	
<b>PCBs</b>				
PCB 1016	0.5	NA	< 0.084	
PCB 1221	0.5	NA	< 0.094	
PCB 1232	0.5	NA	< 0.14	
PCB 1242	0.5	NA	< 0.15	
PCB 1248	0.5	NA	< 0.08	
PCB 1254	0.5	NA	< 0.08	
PCB 1260	0.5	NA	< 0.11	
Total PCBs		NA	0	
<b>Metals -Total</b>				
Arsenic	3	NA	< 5	
Iron	300	NA	<u>33300</u>	
Lead	5	1.6	< 3	
Manganese	50	NA	<u>1200 J</u>	
<b>Metals -Dissolved</b>				
Arsenic	3	NA	< 5	
Iron	300	NA	<u>31900</u>	
Lead	5	< 1.3	< 3	
Manganese	50	NA	<u>1130 J</u>	

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-12					
			OB12(061686) 6/16/1986	OB12(032288) 3/22/1988	OB12(032388) 3/23/1988	OB-12 (1101/04) 11/1/2004	OB-12 (123004) 12/30/2004	OB-12 9/28/2006
<b>VOC</b>								
Benzene	1	NA	NA	< 5	< 1	< 0.31	< 0.21	
Ethylbenzene	700	NA	NA	< 5	< 1	< 0.27	< 0.2	
Toluene	1000	NA	NA	< 5	< 1	< 0.14	< 0.2	
Xylene, -m		NA	NA	< 5	NA	NA	NA	
Xylene, -m,p		NA	NA	NA	< 1	< 0.36	< 0.42	
Xylene, -o		NA	NA	< 5	< 1	< 0.17	< 0.31	
Xylenes	1,000	NA	NA	NA	< 1	< 0.17	< 0.31	
<b>PCBs</b>								
PCB 1016	0.5	< 0.5	NA	NA	< 0.5	< 0.075	< 0.1	
PCB 1221	0.5	< 0.5	NA	NA	< 0.5	< 0.085	< 0.52	
PCB 1232	0.5	< 0.05	NA	NA	< 0.5	< 0.12	< 0.43	
PCB 1242	0.5	< 0.05	NA	NA	< 0.5	< 0.13	< 0.18	
PCB 1248	0.5	< 0.05	NA	NA	< 0.5	< 0.072	< 0.17	
PCB 1254	0.5	< 0.05	NA	NA	< 0.5	< 0.072	< 0.12	
PCB 1260	0.5	< 0.05	NA	NA	< 0.5	< 0.1	< 0.13	
Total PCBs		0	NA	NA	0	0	0	
<b>Metals -Total</b>								
Arsenic	3	< 2	< 2	NA	< 5	< 5	< 1.5	
Iron	300	NA	NA	NA	< 100	< 100	104	
Lead	5	< 50	< 50	NA	< 3	< 3	< 2.6	
Manganese	50	NA	NA	NA	< 15	< 15	2.4 BJ	
<b>Metals -Dissolved</b>								
Arsenic	3	NA	NA	NA	< 5	< 5	< 1.5	
Iron	300	NA	NA	NA	< 100	< 100	< 67	
Lead	5	NA	NA	NA	< 3	< 3	< 2.6	
Manganese	50	NA	NA	NA	< 15	< 15	2.4 BJ	

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-13						
			OB13(061786) 6/17/1986	OB13(032488) 3/24/1988	OB-13(103089) 10/30/1989	OB-13(013090) 1/30/1990	OB-13(042490) 4/24/1990	OB-13(072490) 7/24/1990	OB-13 (10/13/04) 10/13/2004
<b>VOC</b>									
Benzene	1	NA	< 5	< 2	< 2	< 2 JS	< 2	< 2	< 0.5
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2 JS	< 2	< 2	< 0.5
Toluene	1000	NA	< 5	< 2	< 2	< 2 JS	< 2	< 2	< 0.5
Xylene, -m		NA	< 5	< 2	< 2	< 2 JS	< 2	NA	
Xylene, -m,p		NA	NA	NA	NA	NA	NA	NA	
Xylene, -o		NA	< 5	< 2	< 2	< 2 JS	< 2	NA	
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	< 1
<b>PCBs</b>									
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA	< 0.075
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA	< 0.085
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	NA	< 0.12
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	NA	< 0.13
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	NA	< 0.072
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	NA	< 0.072
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	NA	< 0.1
Total PCBs		0	NA	NA	NA	NA	NA	NA	0
<b>Metals -Total</b>									
Arsenic	3	< 2	NA	< 2	< 2	< 5	< 5	< 5	< 5
Iron	300	NA	NA	206 JMt	<b>1050</b>	<b>407</b>	<b>2200</b>		< 100
Lead	5	< 50	NA	< 5	< 5	< 5	31.4		< 3
Manganese	50	NA	NA	< 10	12	< 10	31		< 15 J
<b>Metals -Dissolved</b>									
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	< 5
Iron	300	NA	NA	NA	NA	NA	NA	NA	< 100
Lead	5	NA	NA	NA	NA	NA	NA	NA	< 3
Manganese	50	NA	NA	NA	NA	NA	NA	NA	< 15 J

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

<b>Well</b>	<b>GWQS1</b>	<b>OB-13</b>
<b>Sample Name</b>		<b>OB-13</b>
<b>Sample Date</b>		
		<b>10/3/2006</b>
<b>VOC</b>		
Benzene	1	< 0.21
Ethylbenzene	700	< 0.2
Toluene	1000	< 0.2
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.1
PCB 1221	0.5	< 0.51
PCB 1232	0.5	< 0.42
PCB 1242	0.5	< 0.18
PCB 1248	0.5	< 0.16
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.13
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	< 1.5
Iron	300	67.2 B
Lead	5	< 2.6
Manganese	50	1.1 B
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5
Iron	300	< 67
Lead	5	< 2.6
Manganese	50	0.63 B

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-14A					
			OB14A(061686) 6/16/1986	OB14A(032288) 3/22/1988	OB-14A(103189) 10/31/1989	OB-14A(013090) 1/30/1990	OB-14A(042490) 4/24/1990	OB-14A(072490) 7/24/1990
<b>VOC</b>								
Benzene	1	NA	< 5	< 2	< 2	< 2	< 2	< 2
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2	< 2	< 2
Toluene	1000	NA	< 5	< 2	< 2	< 2	< 2	< 2
Xylene, -m		NA	< 5	< 2	< 2	< 2	< 2	< 2
Xylene, -m,p		NA	NA	NA	NA	NA	NA	NA
Xylene, -o		NA	< 5	< 2	< 2	< 2	< 2	< 2
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA
<b>PCBs</b>								
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	NA
Total PCBs		0	NA	NA	NA	NA	NA	NA
<b>Metals -Total</b>								
Arsenic	3	<u>15</u>	<u>56.6</u>	<u>23.3</u>	<u>26.5</u>	<u>28.3</u>	<u>20.5</u>	
Iron	300	NA	NA	<u>74400</u>	<u>86500</u>	<u>44300</u>	<u>51700</u>	
Lead	5	< 50	<u>85</u>	17.9	<u>17.9</u>	< 5	15.5	
Manganese	50	NA	NA	<u>1360</u>	<u>3780</u>	<u>4860</u>	<u>2880</u>	
<b>Metals -Dissolved</b>								
Arsenic	3	NA	<u>29.4</u>	NA	NA	NA	NA	
Iron	300	NA	NA	NA	NA	NA	NA	
Lead	5	NA	< 50	NA	NA	NA	NA	
Manganese	50	NA	NA	NA	NA	NA	NA	

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB14A(011592) 1/15/1992	OB-14A				
				OB-14A(072992) 7/29/1992	OB-14A(021793) 2/17/1993	OB-14A(072793) 7/27/1993	OB14A(022195) 2/21/1995	OB14A(080795) 8/7/1995
<b>VOC</b>								
Benzene	1	< 1		< 0.5	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 5		< 5	< 5	< 5	< 10	< 10
Toluene	1000	< 5		< 5	< 5	< 5	< 10	< 10
Xylene, -m		NA		NA	NA	NA	NA	NA
Xylene, -m,p		< 5		< 5	< 5	< 5	< 10	< 10
Xylene, -o		< 5		< 5	< 5	< 5	< 10	< 10
Xylenes	1,000	NA		NA	NA	NA	NA	NA
<b>PCBs</b>								
PCB 1016	0.5	NA		NA	NA	NA	NA	NA
PCB 1221	0.5	NA		NA	NA	NA	NA	NA
PCB 1232	0.5	NA		NA	NA	NA	NA	NA
PCB 1242	0.5	NA		NA	NA	NA	NA	NA
PCB 1248	0.5	NA		NA	NA	NA	NA	NA
PCB 1254	0.5	NA		NA	NA	NA	NA	NA
PCB 1260	0.5	NA		NA	NA	NA	NA	NA
Total PCBs		NA		NA	NA	NA	NA	NA
<b>Metals -Total</b>								
Arsenic	3	<u>28.3</u>		<u>41.3 J</u>	<u>14.4</u>	<u>41.2</u>	<u>32.7</u>	<u>4.9 B</u>
Iron	300	<u>67200</u>		<u>376000</u>	<u>86400</u>	<u>290000</u>	<u>64500</u>	<u>103000</u>
Lead	5	< 20.8		<u>107</u>	1.7 B	<u>117</u>	3.8	<u>47</u>
Manganese	50	<u>4140</u>		<u>6440</u>	<u>2670</u>	<u>7350</u>	<u>4150</u>	<u>3320</u>
<b>Metals -Dissolved</b>								
Arsenic	3	NA		NA	NA	NA	NA	NA
Iron	300	NA		NA	NA	NA	NA	NA
Lead	5	NA		NA	NA	NA	NA	NA
Manganese	50	NA		NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-14A		
			OB-14A (8/16/1999) 8/16/1999	OB-14A (4/13/2000) 4/13/2000	OB-14A (10/12/04) 10/12/2004
<b>VOC</b>					
Benzene	1	< 10	NA	< 0.5	< 0.21
Ethylbenzene	700	< 10	NA	< 0.5	< 0.2
Toluene	1000	< 10	NA	< 0.5	< 0.2
Xylene, -m		NA	NA	NA	NA
Xylene, -m,p		NA	NA	NA	< 0.42
Xylene, -o		NA	NA	NA	< 0.31
Xylenes	1,000	< 10	NA	< 1	< 0.31
<b>PCBs</b>					
PCB 1016	0.5	NA	NA	< 0.075 J	< 0.1
PCB 1221	0.5	NA	NA	< 0.085	< 0.51
PCB 1232	0.5	NA	NA	< 0.12	< 0.42
PCB 1242	0.5	NA	NA	< 0.13	< 0.18
PCB 1248	0.5	NA	NA	< 0.072	< 0.17
PCB 1254	0.5	NA	NA	< 0.072	< 0.12
PCB 1260	0.5	NA	NA	< 0.1	< 0.13
Total PCBs		NA	NA	0	0
<b>Metals -Total</b>					
Arsenic	3	<u>20.5</u>	<u>11.9</u>	<u>16.7</u>	<u>4.5 J</u>
Iron	300	NA	NA	<u>55600</u>	<u>42300</u>
Lead	5	< 1.7	3.3	< 3	< 2.6
Manganese	50	NA	NA	<u>2320</u>	<u>1050 J</u>
<b>Metals -Dissolved</b>					
Arsenic	3	NA	<u>9.7 B</u>	<u>19.6</u>	<u>5.5 J</u>
Iron	300	NA	NA	<u>59400</u>	<u>46100</u>
Lead	5	NA	< 1.3	< 3	< 2.6
Manganese	50	NA	NA	<u>2550</u>	<u>1230 J</u>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-14B				
			OB14B(061686) 6/16/1986	OB14B(032288) 3/22/1988	OB-14B(103189) 10/31/1989	OB-14B(013090) 1/30/1990	OB-14B(042490) 4/24/1990
<b>VOC</b>							
Benzene	1	NA	< 5	< 2	< 2	< 2	< 2
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2	< 2
Toluene	1000	NA	< 5	< 2	< 2	< 2	< 2
Xylene, -m		NA	< 5	< 2	< 2	< 2	< 2
Xylene, -m,p		NA	NA	NA	NA	NA	NA
Xylene, -o		NA	< 5	< 2	< 2	< 2	< 2
Xylenes	1,000	NA	NA	NA	NA	NA	NA
<b>PCBs</b>							
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.05	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.05	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.05	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.05	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.05	NA	NA	NA	NA	NA
Total PCBs		0	NA	NA	NA	NA	NA
<b>Metals -Total</b>							
Arsenic	3	<b>3.6</b>	< 2	<b>5.14</b>	< 2	<b>19.2</b>	< 5
Iron	300	NA	NA	<b>14200</b>	<b>14700</b>	<b>37600</b>	<b>8710</b>
Lead	5	< 50	< 50	< 5	< 5	19.8	14
Manganese	50	NA	NA	<b>2120</b>	<b>1760</b>	<b>2000</b>	<b>1400</b>
<b>Metals -Dissolved</b>							
Arsenic	3	NA	< 2	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA
Lead	5	NA	< 50	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB14B(011592) 1/15/1992	OB-14B				
				OB-14B(072892) 7/28/1992	OB-14B(021793) 2/17/1993	OB-14B(072793) 7/27/1993	OB14B(022195) 2/21/1995	OB14B(080795) 8/7/1995
<b>VOC</b>								
Benzene		1	< 1	< 0.5	< 1	< 1	< 1	< 1
Ethylbenzene		700	< 5	< 5	< 5	< 5	< 10	< 10
Toluene		1000	4 J	< 5	< 5	< 5	< 10	< 10
Xylene, -m			NA	NA	NA	NA	NA	NA
Xylene, -m,p			< 5	< 5	< 5	< 5	< 10	< 10
Xylene, -o			< 5	< 5	< 5	< 5	< 10	< 10
Xylenes		1,000	NA	NA	NA	NA	NA	NA
<b>PCBs</b>								
PCB 1016		0.5	NA	NA	NA	NA	NA	NA
PCB 1221		0.5	NA	NA	NA	NA	NA	NA
PCB 1232		0.5	NA	NA	NA	NA	NA	NA
PCB 1242		0.5	NA	NA	NA	NA	NA	NA
PCB 1248		0.5	NA	NA	NA	NA	NA	NA
PCB 1254		0.5	NA	NA	NA	NA	NA	NA
PCB 1260		0.5	NA	NA	NA	NA	NA	NA
Total PCBs			NA	NA	NA	NA	NA	NA
<b>Metals -Total</b>								
Arsenic		3	<u>7.9</u>	< 3 R	1.6 B	<u>3.2 B</u>	3 B	1.1 B
Iron		300	<u>15900</u>	<u>1780 E</u>	<u>1300</u>	<u>2040</u>	<u>1350</u>	<u>799</u>
Lead		5	<u>26.4</u>	< 24.4	< 0.8	1.5 B	< 2	<u>7.2</u>
Manganese		50	<u>1840</u>	<u>1390</u>	<u>1380</u>	<u>1360</u>	<u>1270</u>	<u>834</u>
<b>Metals -Dissolved</b>								
Arsenic		3	NA	NA	NA	NA	NA	NA
Iron		300	NA	NA	NA	NA	NA	NA
Lead		5	NA	NA	NA	NA	NA	NA
Manganese		50	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	GWQS1	OB-14B (10/12/04) 10/12/2004	OB-14B 9/27/2006	OB-15A 6/1/1986	OB15A(061686) 6/16/1986	OB15A(061686)-2 6/16/1986	OB15A(062486) 6/24/1986
<b>VOC</b>							
Benzene	1	< 0.5	< 0.21	< 10	NA	NA	NA
Ethylbenzene	700	< 0.5	< 0.2	< 10	NA	NA	NA
Toluene	1000	< 0.5	< 0.2	22	NA	NA	NA
Xylene, -m		NA	NA	NA	NA	NA	NA
Xylene, -m,p		NA	< 0.42	NA	NA	NA	700
Xylene, -o		NA	< 0.31	NA	NA	NA	220
Xylenes	1,000	< 1	< 0.31	NA	NA	NA	NA
<b>PCBs</b>							
PCB 1016	0.5	< 0.075 J	< 0.1	NA	< 0.05	< 0.5	NA
PCB 1221	0.5	< 0.085	< 0.51	NA	< 0.05	< 0.5	NA
PCB 1232	0.5	< 0.12	< 0.42	NA	< 0.05	< 0.5	NA
PCB 1242	0.5	< 0.13	< 0.18	NA	< 0.05	< 0.5	NA
PCB 1248	0.5	< 0.072	< 0.17	NA	< 0.05	< 0.5	NA
PCB 1254	0.5	< 0.072	< 0.12	NA	< 0.05	< 0.5	NA
PCB 1260	0.5	< 0.1	< 0.13	NA	< 0.05	< 0.5	NA
Total PCBs		0	0	NA	0	0	NA
<b>Metals -Total</b>							
Arsenic	3	< 5	< 1.5	NA	<u>8</u>	<u>7.6</u>	NA
Iron	300	<u>1740 J</u>	<u>959</u>	NA	NA	NA	NA
Lead	5	3.6	< 2.6	NA	<u>764</u>	<u>419</u>	NA
Manganese	50	<u>1860</u>	<u>1900</u>	NA	NA	NA	NA
<b>Metals -Dissolved</b>							
Arsenic	3	< 5	< 1.5	NA	NA	NA	NA
Iron	300	<u>407</u>	<u>949</u>	NA	NA	NA	NA
Lead	5	< 3	< 2.6	NA	NA	NA	NA
Manganese	50	<u>1890</u>	<u>1910</u>	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-15B					
			OB15B(061686) 6/16/1986	OB15B(061786) 6/17/1986	OB15B(032288) 3/22/1988	OB-15B(103089) 10/30/1989	OB-15B(013090) 1/30/1990	OB-15B(042390) 4/23/1990
<b>VOC</b>								
Benzene	1	NA	< 10	< 5	< 2	< 2	< 2	< 2
Ethylbenzene	700	NA	< 10	< 5	< 2	< 2	< 2	< 2
Toluene	1000	NA	< 10	< 5	< 2	< 2	< 2	< 2
Xylene, -m		NA	NA	< 5	< 2	< 2	< 2	< 2
Xylene, -m,p		NA	NA	NA	NA	NA	NA	NA
Xylene, -o		NA	NA	< 5	< 2	< 2	< 2	< 2
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA
<b>PCBs</b>								
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	NA
Total PCBs		0	NA	NA	NA	NA	NA	NA
<b>Metals -Total</b>								
Arsenic	3	2.2	NA	NA	< 2	< 2	< 5	
Iron	300	NA	NA	NA	<u>2100 JMt</u>	<u>8910</u>	<u>21700</u>	
Lead	5	< 50	NA	NA	47.3	< 5	6.13	
Manganese	50	NA	NA	NA	<u>898</u>	<u>410</u>	<u>1050</u>	
<b>Metals -Dissolved</b>								
Arsenic	3	NA	NA	NA	NA	NA	NA	
Iron	300	NA	NA	NA	NA	NA	NA	
Lead	5	NA	NA	NA	NA	NA	NA	
Manganese	50	NA	NA	NA	NA	NA	NA	

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-15B(072390) 7/23/1990	OB-15B				
				OB15B(011492) 1/14/1992	OB015B(073092) 7/30/1992	OB-15B(021793) 2/17/1993	OB-15B(072793) 7/27/1993	OB15B(022195) 2/21/1995
<b>VOC</b>								
Benzene	1	< 2		< 1	< 0.5	< 1	< 1	< 1
Ethylbenzene	700	< 2		< 5	< 5	< 5	< 5	< 10
Toluene	1000	< 2		< 5	< 5	< 5	< 5	< 10
Xylene, -m		< 2		NA	NA	NA	NA	NA
Xylene, -m,p		NA		< 5	< 5	< 5	< 5	< 10
Xylene, -o		< 2		< 5	< 5	< 5	< 5	< 10
Xylenes	1,000	NA		NA	NA	NA	NA	NA
<b>PCBs</b>								
PCB 1016	0.5	NA		NA	NA	NA	NA	NA
PCB 1221	0.5	NA		NA	NA	NA	NA	NA
PCB 1232	0.5	NA		NA	NA	NA	NA	NA
PCB 1242	0.5	NA		NA	NA	NA	NA	NA
PCB 1248	0.5	NA		NA	NA	NA	NA	NA
PCB 1254	0.5	NA		NA	NA	NA	NA	NA
PCB 1260	0.5	NA		NA	NA	NA	NA	NA
Total PCBs		NA		NA	NA	NA	NA	NA
<b>Metals -Total</b>								
Arsenic	3	< 5		<u>5.2</u>	<u>26.2</u>	2.9 B	<u>4.6 B</u>	< 2
Iron	300	<u>12600</u>		<u>26400</u>	<u>28000</u>	<u>7850</u>	<u>10300</u>	<u>2040</u>
Lead	5	14.3		< 20.8	< 24.4	0.97 B	<u>7.5</u>	< 2
Manganese	50	<u>592</u>		<u>2750</u>	<u>4910</u>	<u>2410</u>	<u>6140</u>	<u>3230</u>
<b>Metals -Dissolved</b>								
Arsenic	3	NA		NA	NA	NA	NA	NA
Iron	300	NA		NA	NA	NA	NA	NA
Lead	5	NA		NA	NA	NA	NA	NA
Manganese	50	NA		NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	GWQS1	OB15B(080795) 8/7/1995	OB-15B (10/12/04) 10/12/2004	OB-15B 10/3/2006
<b>VOC</b>				
Benzene	1	< 1	< 0.5	< 0.21
Ethylbenzene	700	< 10	< 0.5	< 0.2
Toluene	1000	< 10	< 0.5	< 0.2
Xylene, -m		NA	NA	NA
Xylene, -m,p		< 10	NA	< 0.42
Xylene, -o		< 10	NA	< 0.31
Xylenes	1,000	NA	< 1	< 0.31
<b>PCBs</b>				
PCB 1016	0.5	NA	< 0.075 J	< 0.094
PCB 1221	0.5	NA	< 0.085	< 0.47
PCB 1232	0.5	NA	< 0.12	< 0.39
PCB 1242	0.5	NA	< 0.13	< 0.16
PCB 1248	0.5	NA	< 0.072	< 0.15
PCB 1254	0.5	NA	< 0.072	< 0.11
PCB 1260	0.5	NA	< 0.1	< 0.12
Total PCBs		NA	0	0
<b>Metals -Total</b>				
Arsenic	3	< 1	< 5	< 1.5
Iron	300	<b>1080</b>	<b>2720</b>	<b>1640</b>
Lead	5	1 B	< 3	< 2.6
Manganese	50	<b>8580</b>	<b>488</b>	<b>1540</b>
<b>Metals -Dissolved</b>				
Arsenic	3	NA	< 5	< 1.5
Iron	300	NA	< 100	< 67
Lead	5	NA	< 3	< 2.6
Manganese	50	NA	<b>408</b>	<b>235</b>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-16						
			OB16(011592) 1/15/1992	OB016(072992) 7/29/1992	OB-16(073092) 7/30/1992	OB-16(021693) 2/16/1993	OB-16(072693) 7/26/1993	OB16(022095) 2/20/1995	OB16(080695) 8/6/1995
<b>VOC</b>									
Benzene	1		< 1	< 0.5	< 0.5	< 1	< 1	NA	< 1
Ethylbenzene	700		< 5	< 5	< 5	< 5	< 5	NA	< 10
Toluene	1000		< 5	< 5	< 5	< 5	< 5	NA	< 10
Xylene, -m			NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p			< 5	< 5	< 5	< 5	< 5	NA	< 10
Xylene, -o			< 5	< 5	< 5	< 5	< 5	NA	< 10
Xylenes	1,000		NA	NA	NA	NA	NA	NA	NA
<b>PCBs</b>									
PCB 1016	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5		NA	NA	NA	NA	NA	NA	NA
Total PCBs			NA	NA	NA	NA	NA	NA	NA
<b>Metals -Total</b>									
Arsenic	3	<u>5.8R</u>	<u>3.5 BR</u>	<u>3.5 BN</u>	<u>6.4 B</u>	<u>3.2 B</u>	<u>11</u>	<u>11.1</u>	
Iron	300	<u>13400</u>	<u>14300</u>	<u>14300 E</u>	<u>10600</u>	<u>8610</u>	<u>12800</u>	<u>16700</u>	
Lead	5	< 20.8	< 24.4	< 24.4	0.94 B	1.8 B	< 2	< 0.48	
Manganese	50	<u>3260</u>	<u>3610</u>	<u>3610</u>	<u>3380</u>	<u>3500</u>	<u>2790</u>	<u>3960</u>	
<b>Metals -Dissolved</b>									
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	GWQS1	OB-16			
		OB-16 (8/16/1999) 8/16/1999	OB-16 (4/13/2000) 4/13/2000	OB-16 (10/12/04) 10/12/2004	OB-16 9/27/2006
<b>VOC</b>					
Benzene	1	NA	NA	< 0.5	< 0.21
Ethylbenzene	700	NA	NA	< 0.5	< 0.2
Toluene	1000	NA	NA	< 0.5	< 0.2
Xylene, -m		NA	NA	NA	NA
Xylene, -m,p		NA	NA	NA	< 0.42
Xylene, -o		NA	NA	NA	< 0.31
Xylenes	1,000	NA	NA	< 1	< 0.31
<b>PCBs</b>					
PCB 1016	0.5	NA	NA	< 0.075 J	< 0.1
PCB 1221	0.5	NA	NA	< 0.085	< 0.5
PCB 1232	0.5	NA	NA	< 0.12	< 0.41
PCB 1242	0.5	NA	NA	< 0.13	< 0.17
PCB 1248	0.5	NA	NA	< 0.072	< 0.16
PCB 1254	0.5	NA	NA	< 0.072	< 0.12
PCB 1260	0.5	NA	NA	< 0.1	< 0.12
Total PCBs		NA	NA	0	0
<b>Metals -Total</b>					
Arsenic	3	<u>10.3</u>	<u>7.3 B</u>	<u>7.6</u>	<u>6.2</u>
Iron	300	NA	NA	<u>11000 J</u>	<u>9890</u>
Lead	5	NA	NA	< 3	< 2.6
Manganese	50	NA	NA	<u>3060</u>	<u>2840</u>
<b>Metals -Dissolved</b>					
Arsenic	3	NA	< 3.1	<u>6.3</u>	<u>4.2</u>
Iron	300	NA	NA	<u>10200</u>	<u>9620</u>
Lead	5	NA	NA	< 3	< 2.6
Manganese	50	NA	NA	<u>3080</u>	<u>2770</u>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-17						
			OB17(011692) 1/16/1992	OB017(072992) 7/29/1992	OB-17(073092) 7/30/1992	OB-17(021693) 2/16/1993	OB-17(072693) 7/26/1993	OB17(022095) 2/20/1995	OB17(022195) 2/21/1995
<b>VOC</b>									
Benzene	1		< 1	< 0.5	< 0.5	< 1	< 1	NA	< 1
Ethylbenzene	700		< 5	2 J	2 J	< 5	< 5	NA	< 10
Toluene	1000		< 5	160	160	< 5	< 5	NA	< 10
Xylene, -m			NA	NA	NA	NA	NA	NA	
Xylene, -m,p			< 5	< 5	< 5	< 5	< 5	NA	< 10
Xylene, -o			< 5	< 5	< 5	< 5	< 5	NA	< 10
Xylenes	1,000		NA	NA	NA	NA	NA	NA	
<b>PCBs</b>									
PCB 1016	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5		NA	NA	NA	NA	NA	NA	NA
Total PCBs			NA	NA	NA	NA	NA	NA	NA
<b>Metals -Total</b>									
Arsenic	3		<u>11.7</u>	<u>28.9</u>	<u>28.9 N</u>	<u>25.2</u>	<u>8.9 B</u>	<u>20.9</u>	NA
Iron	300		<u>23600</u>	<u>54900</u>	<u>54900 E</u>	<u>74100</u>	<u>32900</u>	<u>18900</u>	NA
Lead	5		< 20.8	< 24.4	< 24.4	<u>7.3</u>	<u>7.1</u>	< 2	NA
Manganese	50		<u>15000</u>	<u>20200</u>	<u>20200</u>	<u>10100</u>	<u>7430</u>	<u>4560</u>	NA
<b>Metals -Dissolved</b>									
Arsenic	3		NA	NA	NA	NA	NA	NA	NA
Iron	300		NA	NA	NA	NA	NA	NA	NA
Lead	5		NA	NA	NA	NA	NA	NA	NA
Manganese	50		NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-17				
			OB17(080695) 8/6/1995	OB-17 (8/16/1999) 8/16/1999	OB-17 (4/13/2000) 4/13/2000	OB-17(10/11/04) 10/11/2004	OB-17 9/27/2006
<b>VOC</b>							
Benzene	1		< 1	NA	NA	< 0.5	< 0.21
Ethylbenzene	700		< 10	NA	NA	< 0.5	< 0.2
Toluene	1000		< 10	NA	NA	< 0.5	< 0.2
Xylene, -m			NA	NA	NA	NA	NA
Xylene, -m,p			< 10	NA	NA	NA	< 0.42
Xylene, -o			< 10	NA	NA	NA	< 0.31
Xylenes	1,000		NA	NA	NA	< 1	< 0.31
<b>PCBs</b>							
PCB 1016	0.5		NA	NA	NA	< 0.075 J	< 0.1
PCB 1221	0.5		NA	NA	NA	< 0.085	< 0.52
PCB 1232	0.5		NA	NA	NA	< 0.12	< 0.43
PCB 1242	0.5		NA	NA	NA	< 0.13	< 0.18
PCB 1248	0.5		NA	NA	NA	< 0.072	< 0.17
PCB 1254	0.5		NA	NA	NA	< 0.072	< 0.12
PCB 1260	0.5		NA	NA	NA	< 0.1	< 0.13
Total PCBs			NA	NA	NA	0	0
<b>Metals -Total</b>							
Arsenic	3		<u>19.3</u>	<u>8.6 B</u>	<u>4.5 B</u>	< 5	< 1.5
Iron	300		<u>14300</u>	NA	NA	<u>2470</u>	<u>1770</u>
Lead	5		0.61 B	NA	NA	< 3	< 2.6
Manganese	50		<u>3290</u>	NA	NA	<u>825</u>	<u>619</u>
<b>Metals -Dissolved</b>							
Arsenic	3		NA	NA	< 3.1	< 5	< 1.5
Iron	300		NA	NA	NA	<u>2150</u>	<u>1580</u>
Lead	5		NA	NA	NA	< 3	< 2.6
Manganese	50		NA	NA	NA	<u>804</u>	<u>586</u>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

Page 33 of 42

## OB Wells - Ringwood Mines/Landfill Site

Well	Sample Name	GWQS1	OB-18						
			OB18(011692) 1/16/1992	OB018(072992) 7/29/1992	OB-18(073092) 7/30/1992	OB-18(021693) 2/16/1993	OB-18(072693) 7/26/1993	OB18(022095) 2/20/1995	OB18(022195) 2/21/1995
<b>VOC</b>									
Benzene	1		< 1	< 0.5	< 0.5	< 1	< 1	NA	< 1
Ethylbenzene	700		< 5	< 5	< 5	< 5	< 5	NA	< 10
Toluene	1000		< 5	< 5	< 5	< 5	< 5	NA	3 J
Xylene, -m			NA	NA	NA	NA	NA	NA	
Xylene, -m,p			< 5	< 5	< 5	< 5	< 5	NA	3 J
Xylene, -o			< 5	< 5	< 5	< 5	< 5	NA	< 10
Xylenes	1,000		NA	NA	NA	NA	NA	NA	NA
<b>PCBs</b>									
PCB 1016	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5		NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5		NA	NA	NA	NA	NA	NA	NA
Total PCBs			NA	NA	NA	NA	NA	NA	NA
<b>Metals -Total</b>									
Arsenic	3		<u>10.8</u>	<u>14.5</u>	<u>14.5 N</u>	1.7 B	<u>65</u>	< 2	NA
Iron	300		<u>69900</u>	<u>20600</u>	<u>20600 E</u>	<u>17800</u>	<u>263000</u>	<u>2650</u>	NA
Lead	5		<u>43.2</u>	< 24.4	< 24.4	2 B	<u>101</u>	< 2	NA
Manganese	50		<u>2240</u>	<u>450</u>	<u>450</u>	<u>336</u>	<u>6200</u>	<u>80.1</u>	NA
<b>Metals -Dissolved</b>									
Arsenic	3		NA	NA	NA	NA	NA	NA	NA
Iron	300		NA	NA	NA	NA	NA	NA	NA
Lead	5		NA	NA	NA	NA	NA	NA	NA
Manganese	50		NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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## OB Wells - Ringwood Mines/Landfill Site

Well	GWQS1	OB-18		
		OB18(080695) 8/6/1995	OB-18 (10/14/04) 10/11/2004	OB-18 9/26/2006
<b>VOC</b>				
Benzene	1	< 1	< 0.5	< 0.21
Ethylbenzene	700	< 10	< 0.5	< 0.2
Toluene	1000	< 10	< 0.5	< 0.2
Xylene, -m		NA	NA	NA
Xylene, -m,p		< 10	NA	< 0.42
Xylene, -o		< 10	NA	< 0.31
Xylenes	1,000	NA	< 1	< 0.31
<b>PCBs</b>				
PCB 1016	0.5	NA	< 0.075 J	< 0.099
PCB 1221	0.5	NA	< 0.085	< 0.49
PCB 1232	0.5	NA	< 0.12	< 0.41
PCB 1242	0.5	NA	< 0.13	< 0.17
PCB 1248	0.5	NA	< 0.072	< 0.16
PCB 1254	0.5	NA	< 0.072	< 0.11
PCB 1260	0.5	NA	< 0.1	< 0.12
Total PCBs		NA	0	0
<b>Metals -Total</b>				
Arsenic	3	< 1	< 5	< 1.5
Iron	300	<b>3100</b>	< 100	78.5 B
Lead	5	1.6 B	< 3	< 2.6
Manganese	50	<b>68.5</b>	< 15	< 0.4
<b>Metals -Dissolved</b>				
Arsenic	3	NA	< 5	< 1.5
Iron	300	NA	< 100	< 67
Lead	5	NA	< 3	< 2.6
Manganese	50	NA	< 15	< 0.4

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

<b>Well</b>		<b>OB-19</b>
<b>Sample Name</b>	<b>GWQS1</b>	<b>MW-19</b>
<b>Sample Date</b>		<b>10/3/2006</b>
<b>VOC</b>		
Benzene	1	0.55 J
Ethylbenzene	700	< 0.2
Toluene	1000	< 0.2
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.1
PCB 1221	0.5	< 0.51
PCB 1232	0.5	< 0.42
PCB 1242	0.5	< 0.18
PCB 1248	0.5	< 0.16
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.13
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	<u>3.1</u>
Iron	300	<u>43600</u>
Lead	5	<u>9.4</u>
Manganese	50	<u>713</u>
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5
Iron	300	<u>28700</u>
Lead	5	< 2.6
Manganese	50	<u>532</u>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

<b>Well</b>	<b>GWQS1</b>	<b>OB-20A</b>
<b>Sample Name</b>		<b>MW-20</b>
<b>Sample Date</b>		<b>10/4/2006</b>
<b>VOC</b>		
Benzene	1	0.36 J
Ethylbenzene	700	< 0.2
Toluene	1000	0.56 J
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.1
PCB 1221	0.5	< 0.5
PCB 1232	0.5	< 0.41
PCB 1242	0.5	< 0.17
PCB 1248	0.5	< 0.16
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.12
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	<u>13.9</u>
Iron	300	<u>42400</u>
Lead	5	< 2.6
Manganese	50	<u>3470</u>
<b>Metals -Dissolved</b>		
Arsenic	3	<u>13.1</u>
Iron	300	<u>39800</u>
Lead	5	< 2.6
Manganese	50	<u>3350</u>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

<b>Well</b>	<b>GWQS1</b>	<b>OB-20B MW-20 OB-34</b>
<b>Sample Name</b>		<b>10/4/2006</b>
<b>Sample Date</b>		
<b>VOC</b>		
Benzene	1	<u>2</u>
Ethylbenzene	700	< 0.2
Toluene	1000	0.62 J
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.1
PCB 1221	0.5	< 0.5
PCB 1232	0.5	< 0.41
PCB 1242	0.5	< 0.17
PCB 1248	0.5	< 0.16
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.12
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	1.5 B
Iron	300	<u>35000</u>
Lead	5	3.1
Manganese	50	<u>9430</u>
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5
Iron	300	<u>32400</u>
Lead	5	< 2.6
Manganese	50	<u>9150</u>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

<b>Well</b>	<b>GWQS1</b>	<b>OB-21</b>
<b>Sample Name</b>		<b>MW-21</b>
<b>Sample Date</b>		<b>10/5/2006</b>
<b>VOC</b>		
Benzene	1	< 0.21
Ethylbenzene	700	< 0.2
Toluene	1000	< 0.2
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.11
PCB 1221	0.5	< 0.53
PCB 1232	0.5	< 0.44
PCB 1242	0.5	< 0.19
PCB 1248	0.5	< 0.17
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.13
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	< 1.5
Iron	300	<b>2090</b>
Lead	5	< 2.6
Manganese	50	<b>93.8</b>
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5
Iron	300	< 67
Lead	5	< 2.6
Manganese	50	3.2 B

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

Well	GWQS1	OB-22
Sample Name		OB-22
Sample Date		11/30/2006
<b>VOC</b>		
Benzene	1	< 0.21
Ethylbenzene	700	< 0.2
Toluene	1000	< 0.2
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.1
PCB 1221	0.5	< 0.52
PCB 1232	0.5	< 0.43
PCB 1242	0.5	< 0.18
PCB 1248	0.5	< 0.17
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.13
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	<u>9.5 J</u>
Iron	300	<u>35200 J</u>
Lead	5	<u>19.5 J</u>
Manganese	50	<u>2060 J</u>
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5 J
Iron	300	157 J
Lead	5	< 2.8 J
Manganese	50	<u>1040 J</u>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

Well	GWQS1	OB-23
Sample Name		OB-23
Sample Date		11/28/2006
<b>VOC</b>		
Benzene	1	< 0.21
Ethylbenzene	700	8.4
Toluene	1000	2.3
Xylene, -m		NA
Xylene, -m,p		23.2
Xylene, -o		35.6
Xylenes	1,000	58.8
<b>PCBs</b>		
PCB 1016	0.5	< 0.11
PCB 1221	0.5	< 0.53
PCB 1232	0.5	< 0.44
PCB 1242	0.5	< 0.18
PCB 1248	0.5	< 0.17
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.13
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	1.8 B
Iron	300	<u>24600</u>
Lead	5	< 2.8 J
Manganese	50	<u>1450</u>
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5
Iron	300	<u>24300</u>
Lead	5	3 J
Manganese	50	<u>1470</u>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey

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**OB Wells - Ringwood Mines/Landfill Site**

<b>Well</b>	<b>GWQS1</b>	<b>OB-24</b>
<b>Sample Name</b>		<b>OB-24</b>
<b>Sample Date</b>		<b>11/28/2006</b>
<b>VOC</b>		
Benzene	1	< 0.21
Ethylbenzene	700	< 0.2
Toluene	1000	< 0.2
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.11
PCB 1221	0.5	< 0.53
PCB 1232	0.5	< 0.44
PCB 1242	0.5	< 0.18
PCB 1248	0.5	< 0.17
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.13
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	< 1.5
Iron	300	124
Lead	5	2.8 B
Manganese	50	<b>487</b>
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5
Iron	300	124
Lead	5	< 2.8
Manganese	50	<b>487</b>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

## DRAFT

Table 8. Historical Well Sampling Results  
 Ringwood Mines/Landfill Site  
 Ringwood, New Jersey


Page 42 of 42

**OB Wells - Ringwood Mines/Landfill Site**

<b>Well</b>	<b>GWQS1</b>	<b>OB-25</b>
<b>Sample Name</b>		<b>OB-25</b>
<b>Sample Date</b>		<b>11/30/2006</b>
<b>VOC</b>		
Benzene	1	< 0.21
Ethylbenzene	700	< 0.2
Toluene	1000	< 0.2
Xylene, -m		NA
Xylene, -m,p		< 0.42
Xylene, -o		< 0.31
Xylenes	1,000	< 0.31
<b>PCBs</b>		
PCB 1016	0.5	< 0.11
PCB 1221	0.5	< 0.54
PCB 1232	0.5	< 0.45
PCB 1242	0.5	< 0.19
PCB 1248	0.5	< 0.18
PCB 1254	0.5	< 0.13
PCB 1260	0.5	< 0.13
Total PCBs		0
<b>Metals -Total</b>		
Arsenic	3	<b>9.1</b>
Iron	300	<b>45800</b>
Lead	5	<b>31.5</b>
Manganese	50	<b>3290</b>
<b>Metals -Dissolved</b>		
Arsenic	3	< 1.5
Iron	300	81.5 B
Lead	5	< 2.8
Manganese	50	<b>1530</b>

All results are in micrograms per liter (ug/L)

See footnotes for additional information.

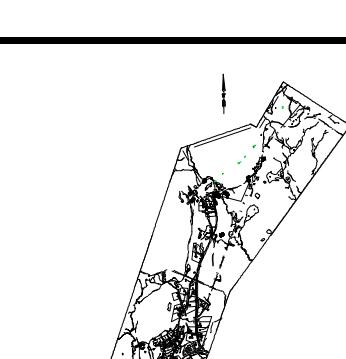


#### LEGEND

- ◆ BEDROCK WELL
  - DEEP BEDROCK WELL
  - △ DIRECTIONAL WELL
  - UNCONSOLIDATED WELL
  - ✖ MONITORING WELL DAMAGED OR NOT AVAILABLE FOR SAMPLING
- PAINT SLUDGE REMOVAL AREA

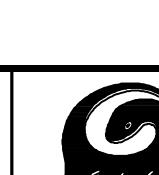
0 300 600 900  
SCALE IN FEET

KEYPLAN  
REV. ISSUED DATE DESCRIPTION



SEAL

SEAL

 **ARCADIS**

1 International Boulevard  
Mahwah, NJ 07430  
Tel: 201-584-1410 Fax: 201-584-1420  
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PROJECT TITLE  
RINGWOOD MINE/LANDFILL SITE  
RINGWOOD, NEW JERSEY

PROJECT MANAGER  
E. ZIMMERMAN

SHEET TITLE

MONITORING WELL LOCATIONS

DEPARTMENT MANAGER  
C. MOTTA

TASK/PHASE NUMBER  
00001


DRAWN BY  
J. GONZALEZ

LEAD DESIGN PROF.  
J. ROCKLIN

CHECKED BY  
E. ZIMMERMAN

DRAWING NUMBER  
NJ000604.0034

1



- ◆ BEDROCK WELL
- DEEP BEDROCK WELL
- ▲ DIRECTIONAL WELL
- UNCONSOLIDATED WELL
- MONITORING WELL DAMAGED OR

SAMPLE ID	SAMPLE DATE	
CONSTITUENT	SAMPLE INTER (FEET BELOW GROUND SURF OR MEAN SEA LEVEL)	
OB-1	Sep-06	April-07
ftbgs (msl)	5-31 (537.6-511.6)	
<b>Metals:</b>		
Arsenic	<110	< 1.5
Lead	<2.6	< 2.8
<b>VOCs and SVOCs:</b>		
Benzene	<0.21	<0.21
bis(2-Ethylhexyl)phthalate	<0.66	<0.73
<b>PCBs:</b>	ND	ND

NOTE:

1. DATA QUALIFIERS WERE NOT PROVIDED ON DRAWINGS. DATA QUALIFIERS ARE REPORTED IN ANALYTICAL TABLES.
2. WHEN A DUPLICATE SAMPLE ANALYSIS WAS PERFORMED, THE DATA REPORTED ON THE DRAWING IS THE GREATER OF THE TWO ANALYTICAL RESULTS.
3. EXISTING CONTOURS DEPICT TOPOGRAPHY PRIOR TO REMOVAL ACTIVITIES.

<b>Constituent</b>	<b>Higher of PQL or NJDEP Groundwater Quality Criteria</b>
<u>Metals</u>	
Aluminum	200
Arsenic	3
Beryllium	1
Cadmium	4
Chromium	70
Iron	300
Lead	5
Manganese	50
Mercury	2
Nickel	100
Sodium	50000
Zinc	2000
<u>VOCs and SVOCs</u>	
<u>Toxicity</u>	

ND NOT DETECTED ABOVE LABORATORY  
DETECTION LIMIT  
NE NO EXCEEDANCE  
NA NOT ANALYZED  
NS NO STANDARD  
< LESS THAN  
BOLD CONTAMINANT DETECTED AT  
LEVELS GREATER THAN THE NJDEP  
GROUNDWATER QUALITY CRITERIA  
ftbgs FEET BELOW GROUND SURFACE  
msl MFAN SFA LFVFI

RINCWOOD MINE/LANDFILL SITE

PROJECT MANAGER E. ZIMMERMAN	DEPARTMENT MANAGER C. MOTTA	LEAD DESIGN PROF. J. ROCKLIN	CHECKED BY E. ZIMMERMAN
SHEET TITLE  SITE-WIDE GROUNDWATER RESULTS SEPTEMBER/OCTOBER 2006 AND APRIL 2007	TASK/PHASE NUMBER 00001	DRAWN BY J. GONZALEZ	
	PROJECT NUMBER NJ000604.0034	DRAWING NUMBER 2	